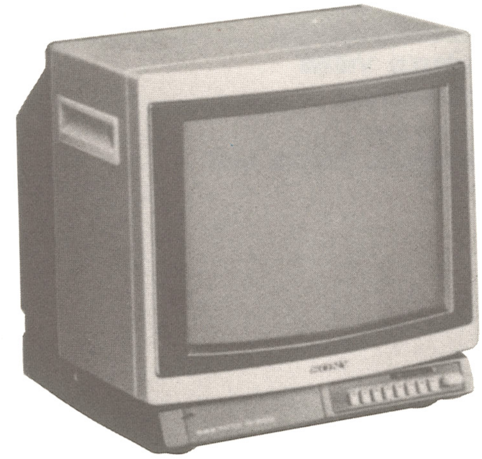
KV-1440E

SERVICE MANUAL

E Model
Chassis No. SCC-714A-A



September, 1985

XE-5 CHASSIS

SPECIFICATIONS

Television system	CCIR system B, G and H
Color system	PAL
Channel coverage	VHF channels E2-E12 UHF channels E21-E68
Picture tube	Trinitron tube Approx. 36.8 cm (14 inches) 90 degree deflection (Approx. 33.7 cm picture measured diagonally)
Antenna	75-ohm standard coaxial socket VHF telescopic antenna (supplied)
Speaker	7.5 cm dia.
Audio output	1.5 W
Power requirements	110 – 240 V AC, 50/60 Hz
Power consumption	75 W
Dimensions	Approx. 366 × 356.5 × 408.5 mm (w/h/d)
Weight	Approx. 10.8 kg
Accessories supplied	VHF telescopic antenna (1) Antenna connector (300 – 75 ohm matching transformer is built-in.) (1)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV
SONY®

CTV

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WARNING !!

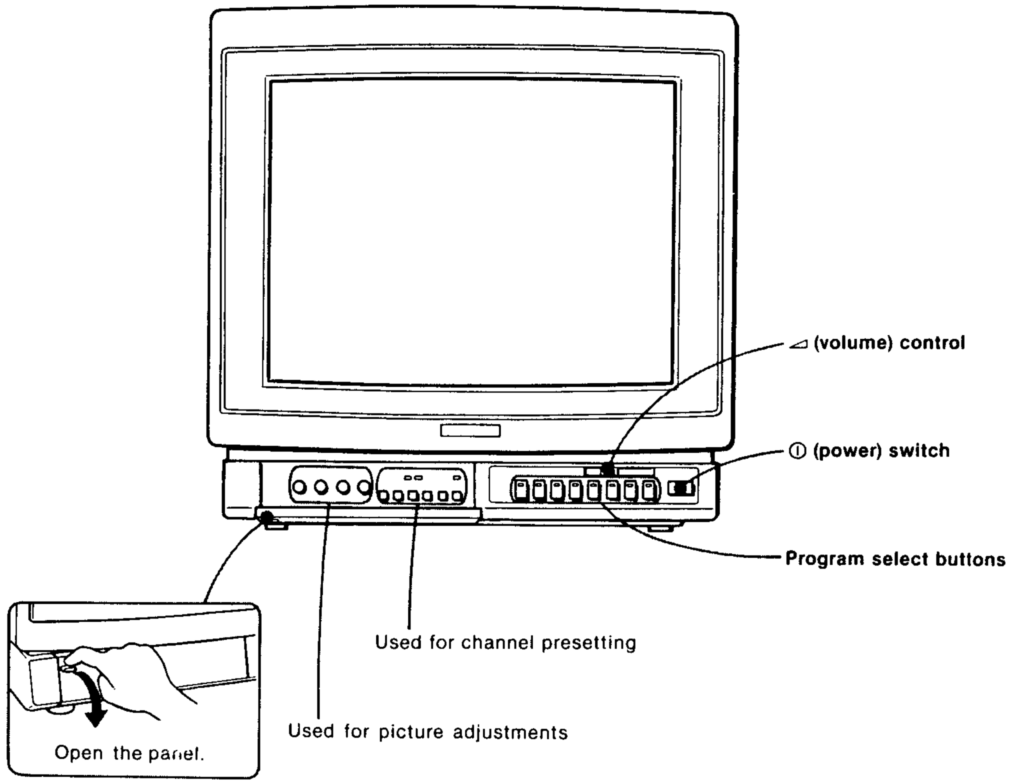
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

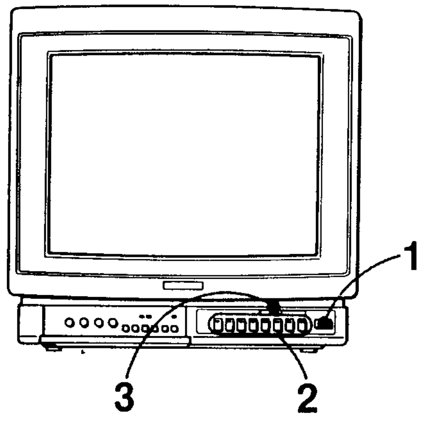
SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS


⊿ (volume) control
⏻ (power) switch
Program select buttons
Used for channel presetting
Used for picture adjustments
Open the panel.

OPERATION

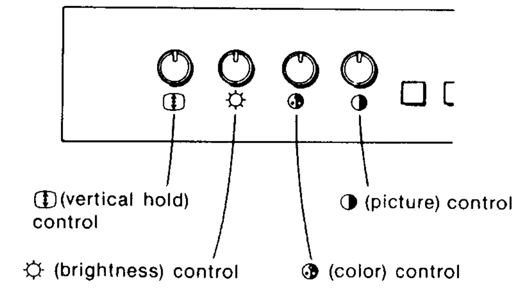
VIEWING TV PROGRAM



1 Depress ⏻ to turn on the TV.
2 Press the desired program select button. The indicator on the selected button lights.
3 Adjust the volume by sliding ⊿ toward 10 for more volume, and toward 0 for less volume.

PICTURE ADJUSTMENTS

Front panel opened


⦶ (vertical hold) control
☼ (brightness) control
◕ (color) control
◑ (picture) control

to decrease picture contrast

to increase picture contrast

for less color intensity

for more color intensity

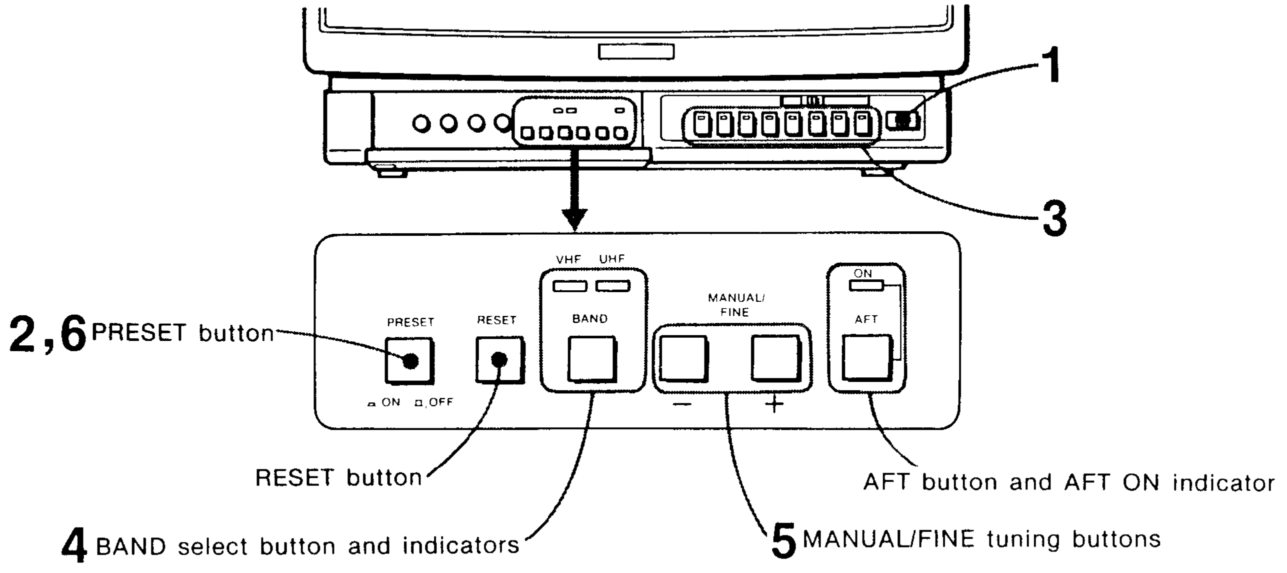
for less brightness

for more brightness

If the picture rolls vertically, turn ⦶ to stabilize the picture.

1-2. CHANNEL PRESETTING

Up to 8 channels can be preset on the program select buttons.


1
3
2,6 PRESET button
PRESET
⌴ ON ⊓ OFF
RESET
RESET button
VHF UHF
BAND
4 BAND select button and indicators
MANUAL/FINE
−
+
5 MANUAL/FINE tuning buttons
ON
AFT
AFT button and AFT ON indicator

1 Depress ⏻.
2 Depress PRESET (⌴ ON) to set the TV in the preset standby mode.
3 Press the program select button on which a channel is to be preset. The indicator on the button will blink.
4 Press BAND so that the desired band indicator, VHF or UHF, lights.
5 Tune in the desired channel with +/− MANUAL/FINE.
  + for higher-numbered channels
  − for lower-numbered channels
  First keep + or − MANUAL/FINE depressed until a picture will appear. Then repeat pressing the button momentarily until the best possible picture is obtained. If the channel located is not the desired one, repeat this procedure.

- The TV can be reset to a frequency below the lowest channel of the band by pressing RESET.

Repeat steps 3 to 5 for all desired channels.

6 Press PRESET (⊓ OFF).
  The preset channels are memorized and the AFT circuit is automatically activated for clear picture. The AFT ON indicator lights.

FINE-TUNING OF A WEAK STATION

If the picture of a particular channel is not acceptable, make sure PRESET is set to ⊓ OFF, and keep + or − MANUAL/FINE pressed until the picture becomes clearer. When either MANUAL/FINE is pressed, the automatic fine tuning on the selected channel is deactivated and the AFT ON indicator goes off, and the lamp on the programme select button blinks. To view this particular channel, keep the automatic fine tuning deactivated. (Do not press AFT). When other channels are selected, the automatic fine tuning activates automatically.

SECTION 2
EXPLODED VIEWS

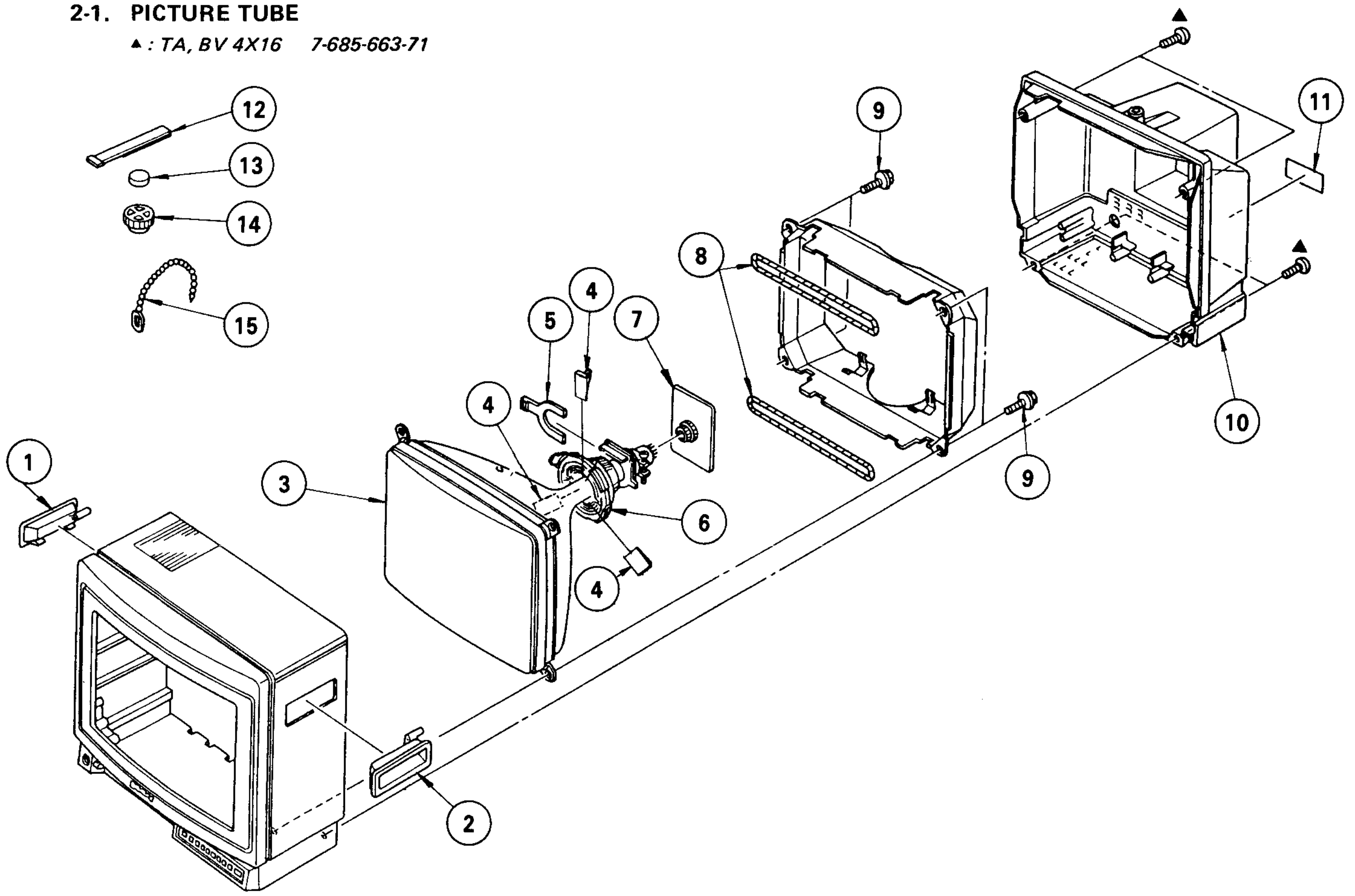
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

2-1. PICTURE TUBE

▲: TA, BV 4X16 7-685-663-71

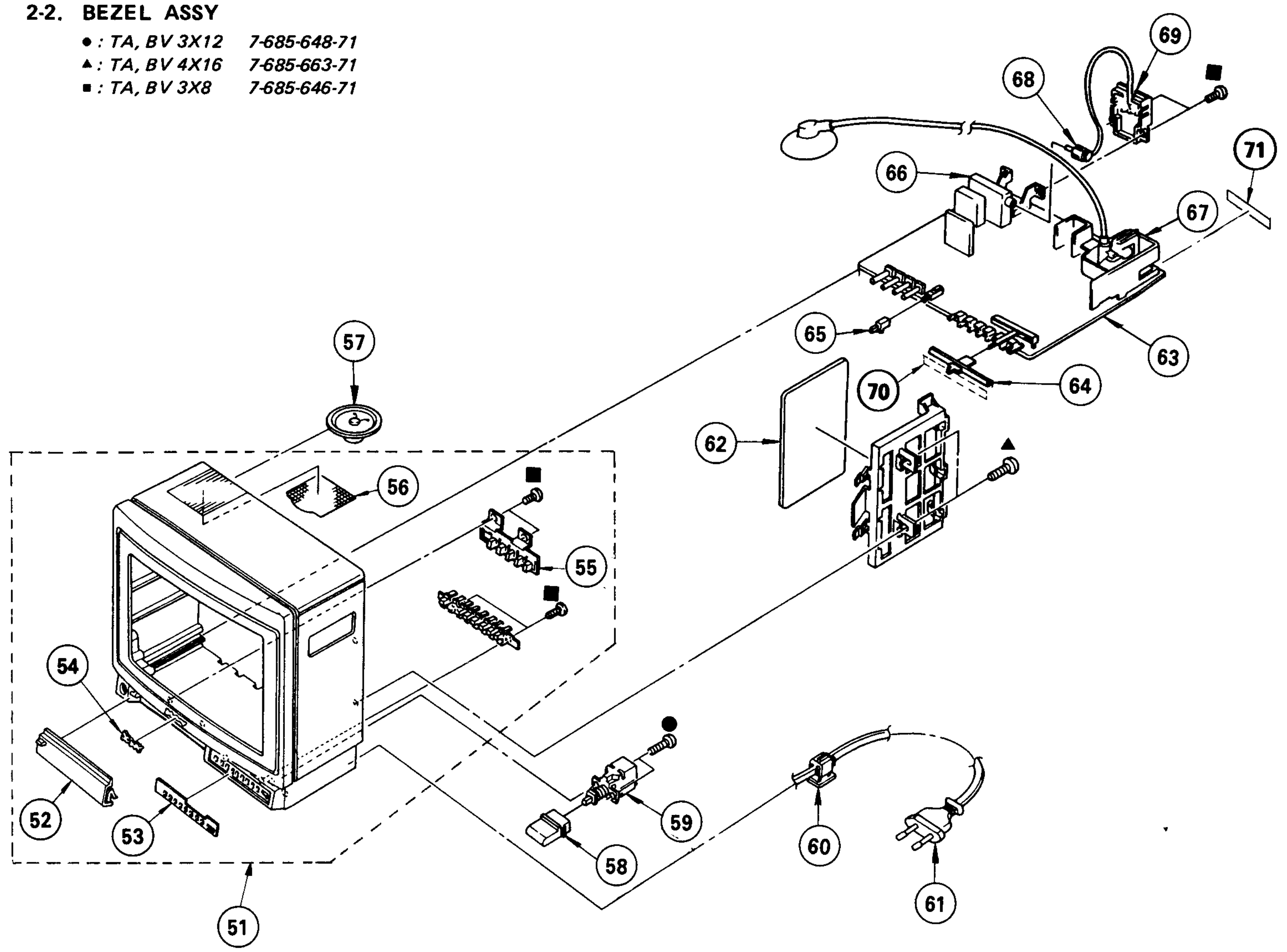


No.	Part No.	Description	Remark
1	4-374-921-11	HANDLE (LEFT)	
2	4-374-920-11	HANDLE (RIGHT)	
3	⚠8-735-553-05	CRT (A34JBU10X)	
4	3-703-961-01	SPACER, DY	
5	1-452-277-00	MAGNET, BMC	
6	⚠1-451-249-11	DEFLECTION YOKE (SY-125B)	
7	*A-1330-628-A	C BOARD, COMPLETE	
8	⚠1-426-145-00	COIL, DEGAUSSING	

No.	Part No.	Description	Remark
9	4-365-808-00	SCREW (5), TAPPING	
10	4-374-925-21	COVER, BACK	
11	*4-376-545-01	LABEL, MODEL NUMBER	
12	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
13	1-452-032-00	MAGNET, DISK; 10MM ø	
14	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
15	4-308-870-00	CLIP, LEAD WIRE	

2-2. BEZEL ASSY

●: TA, BV 3X12 7-685-648-71
▲: TA, BV 4X16 7-685-663-71
■: TA, BV 3X8 7-685-646-71



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark
51	X-4374-932-1	BEZEL ASSY	52,53,54,55,56
52	X-4374-923-4	DOOR ASSY, CONTROL	
53	4-376-526-01	WINDOW (A), TUNING	
54	4-840-002-00	EMBLEM, SONY	
55	4-376-518-01	BUTTON, MULTI	
56	*4-374-962-01	NET, SPEAKER	
57	1-503-344-11	SPEAKER	
58	4-376-523-01	BUTTON (A), POWER	
59	⚠1-554-967-11	SWITCH, PUSH (AC POWER)(1 KEY)	
60	⚠4-022-115-00	HOLDER, AC CORD	

No.	Part No.	Description	Remark
61	⚠1-534-817-71	CORD, POWER	
62	*A-1245-287-A	F BOARD, COMPLETE	
63	*A-1296-065-A	A BOARD, COMPLETE	
64	4-374-914-11	KNOB, CONTROL	
65	4-376-524-01	BUTTON, PRESET	
66	⚠1-463-584-11	TUNER, ET (BT-881A)	
67	⚠1-439-311-31	TRANSFORMER ASSY, FLYBACK	
68	*1-534-805-00	PIN CABLE	
69	⚠1-536-933-11	TERMINAL BOARD, ANTENNA	
70	9-911-837-XX	CUSHION	
71	9-911-837-XX	CUSHION, UPPER LID	

SECTION 3
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
	*A-1245-287-A	F BOARD, COMPLETE *****************				
		CAPACITOR				
C601	⚠1-130-843-00	FILM	0.1MF	20%	300V	
C603	1-125-222-21	ELECT(BLOCK)	330MF	20%	400V	
C604	1-121-919-00	ELECT	47MF		160V	
C605	1-102-244-00	CERAMIC	220PF	10%	500V	
C606	1-123-381-00	ELECT	2.2MF	20%	50V	
C607	1-102-824-21	CERAMIC	470PF	5%	50V	
C608	1-108-630-91	MYLAR	0.022MF	10%	100V	
C609	1-102-030-00	CERAMIC	330PF	10%	500V	
C610	1-108-622-91	MYLAR	0.0047MF	10%	100V	
C611	1-102-973-00	CERAMIC	100PF	5%	50V	
C612	1-121-919-00	ELECT	47MF		160V	
C613	1-102-249-00	CERAMIC	680PF	20%	2KV	
C614	1-123-356-00	ELECT	10MF	20%	16V	
C615	1-106-180-00	MYLAR	0.0022MF	5%	100V	
C616	1-101-810-00	CERAMIC	100PF	5%	500V	
C619	1-102-030-00	CERAMIC	330PF	10%	500V	
C620	1-123-323-00	ELECT	470MF	20%	16V	
C621	1-102-030-00	CERAMIC	330PF	10%	500V	
C622	1-123-325-00	ELECT	2200MF	20%	10V	
C623	1-161-830-00	CERAMIC	0.0047MF		500V	
C624	1-161-830-00	CERAMIC	0.0047MF		500V	
C625	1-102-244-00	CERAMIC	220PF	10%	500V	
C626	1-161-830-00	CERAMIC	0.0047MF		500V	
C627	1-161-830-00	CERAMIC	0.0047MF		500V	
C628	1-162-115-00	CERAMIC	330PF	10%	2KV	
C630	1-102-030-00	CERAMIC	330PF	10%	500V	
C631	1-161-830-00	CERAMIC	0.0047MF		500V	
C632	1-108-620-91	MYLAR	0.0033MF	10%	100V	
		DIODE				
D601	8-719-302-03	DIODE RM11A				
D602	8-719-302-03	DIODE RM11A				
D603	8-719-302-03	DIODE RM11A				
D604	8-719-302-03	DIODE RM11A				
D605	8-719-911-19	DIODE 1SS119				
D606	8-719-101-58	DIODE RD5.6E-L2				
D607	8-719-200-02	DIODE 10E2				
D608	8-719-924-06	DIODE ERC24-06S				
D609	8-719-200-02	DIODE 10E2				
D610	8-719-925-06	DIODE ERC25-06S				
D611	8-719-101-89	DIODE RD15E-L2				
		CONNECTOR				
F1	*1-506-349-21	3P PLUG (L)				
F2	*1-508-765-00	3P PLUG (M)				
F4	*1-508-767-00	5P PLUG				

Ref.No.	Part No.	Description				Remark
		FUSE				
F601	⚠1-532-237-00	FUSE, TIME-LAG 3.15A				
	1-533-087-00	HOLDER, FUSE; F601				
		IC				
IC601	8-759-100-75	IC UPC1394C				
		COIL				
L601	1-408-300-00	MICRO INDUCTOR 6.8UH				
L602	1-407-365-00	COIL, CHOKE				
		TRANSISTOR				
Q601	8-729-902-49	TRANSISTOR 2SC3505F				
	4-363-414-00	SPACER, MICA; Q601				
	*4-370-012-01	HOLDER, TRANSISTOR; Q601				
Q602	8-729-195-82	TRANSISTOR 2SC2958				
Q603	8-729-163-93	TRANSISTOR 2SA639S				
Q604	8-729-245-83	TRANSISTOR 2SC2458				
Q605	8-729-245-83	TRANSISTOR 2SC2458				
		RESISTOR				
R601	1-249-469-11	CARBON	100K	5%	1/4W	
R602	1-247-829-00	CARBON	820	5%	1/6W	
R603	1-247-840-00	CARBON	2.4K	5%	1/6W	
R604	1-202-728-00	SOLID	5.6M	10%	1/2W	
R605	1-205-687-00	CEMENTED	54K	10%	7W	
R606	1-205-712-00	CEMENTED	3.9	5%	20W	
R607	1-244-943-00	CARBON	820K	5%	1/2W	
R608	1-247-867-00	CARBON	33K	5%	1/6W	
R609	1-249-429-11	CARBON	10K	5%	1/6W	
R610	1-247-847-00	CARBON	4.7K	5%	1/6W	
R611	1-247-129-00	CARBON	820	5%	1/4W	
R612	1-247-825-00	CARBON	560	5%	1/6W	
R613	1-247-889-00	CARBON	270K	5%	1/6W	
R614	1-247-851-00	CARBON	6.8K	5%	1/6W	
R615	1-249-411-11	CARBON	330	5%	1/6W	F
R616	1-217-244-11	WIREWOUND	0.39	10%	3W	F
R617	1-249-417-11	CARBON	1K	5%	1/6W	F
R618	1-247-805-00	CARBON	82	5%	1/6W	
R619	1-205-687-00	CEMENTED	54K	10%	7W	
R620	1-216-463-00	METAL OXIDE	12K	5%	2W	F
R621	1-247-885-00	CARBON	180K	5%	1/6W	
R622	1-247-866-00	CARBON	30K	5%	1/6W	
R623	1-247-891-00	CARBON	330K	5%	1/6W	
R624	1-247-863-00	CARBON	22K	5%	1/6W	
R625	1-247-863-00	CARBON	22K	5%	1/6W	
R626	1-247-823-00	CARBON	470	5%	1/6W	
R627	1-247-887-00	CARBON	220K	5%	1/6W	
R628	1-247-873-00	CARBON	56K	5%	1/6W	
R629	1-247-903-00	CARBON	1M	5%	1/6W	
R632	1-247-887-00	CARBON	220K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R633	1-249-437-11	CARBON	47K	5%	1/6W	
R634	1-247-878-00	CARBON	91K	5%	1/6W	
R635	1-249-377-11	CARBON	0.47	5%	1/6W	F
R636	1-249-377-11	CARBON	0.47	5%	1/6W	F
R637	1-247-823-00	CARBON	470	5%	1/6W	
R638	1-247-883-00	CARBON	150K	5%	1/6W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description
RV601	1-230-230-00	RES, ADJ, CERAMIC CARBON 1K

TRANSFORMER

Ref.No.	Part No.	Description
T601	⚠ 1-421-582-00	TRANSFORMER, FERRITE
T602	1-446-194-00	TRANSFORMER, CHOPPER DRIVE
T603	⚠ 1-421-605-21	TRANSFORMER, FERRITE (SRT)

THERMISTOR

Ref.No.	Part No.	Description
TH601	1-800-202-XX	THERMISTOR S-10K
THP601	⚠ 1-806-165-00	THERMISTOR (POSITIVE)

****

Ref.No.	Part No.	Description
	*A-1296-065-A	A BOARD, COMPLETE *****************
	3-531-576-31	RIVET (DIA. 3), NYLON
	3-701-833-01	HEAD, WASHER, TAPPING SCREW
	4-308-851-00	PURSE LOCK
	*4-365-811-00	CASE (MAIN), SHIELD, VIF
	*4-365-812-00	LID, UPPER, SHIELD CASE, VIF
	*4-365-813-00	LID, BOTTOM, SHIELD CASE, VIF
	*4-376-517-01	HOLDER (A), LED
	*4-376-519-01	HOLDER (B), LED
	*4-376-521-01	HOLDER (C), LED

CONNECTOR

Ref.No.	Part No.	Description
A1	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
A2	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
A3	*1-508-786-00	2P PLUG (M)
A4	*1-508-765-00	3P PLUG (M)
A5	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
A6	*1-508-767-00	5P PLUG

CAPACITOR

Ref.No.	Part No.	Description			Remark
C001	1-101-004-00	CERAMIC	0.01MF		50V
C002	1-123-298-00	ELECT	470MF	20%	6.3V
C003	1-101-004-00	CERAMIC	0.01MF		50V
C007	1-101-004-00	CERAMIC	0.01MF		50V
C008	1-123-330-00	ELECT	22MF	20%	16V
C009	1-123-356-00	ELECT	10MF	20%	16V
C010	1-108-603-00	MYLAR	0.1MF	5%	50V
C011	1-102-108-00	CERAMIC	150PF	10%	50V
C012	1-102-108-00	CERAMIC	150PF	10%	50V
C018	1-102-959-00	CERAMIC	22PF	5%	50V
C019	1-102-959-00	CERAMIC	22PF	5%	50V
C042	1-102-106-00	CERAMIC	100PF	10%	50V
C043	1-102-074-00	CERAMIC	0.001MF	10%	50V
C045	1-123-379-00	ELECT	0.47MF	20%	50V
C151	1-106-220-00	MYLAR	0.1MF	10%	100V
C152	1-101-004-00	CERAMIC	0.01MF		50V
C153	1-123-356-00	ELECT	10MF	20%	16V
C154	1-123-379-00	ELECT	0.47MF	20%	50V
C155	1-123-356-00	ELECT	10MF	20%	16V
C156	1-123-318-00	ELECT	33MF	20%	16V
C157	1-123-356-00	ELECT	10MF	20%	16V
C158	1-106-220-00	MYLAR	0.1MF	10%	100V
C159	1-106-216-00	MYLAR	0.068MF	10%	100V
C160	1-123-318-00	ELECT	33MF	20%	16V
C201	1-123-321-00	ELECT	220MF	20%	16V
C203	1-123-318-00	ELECT	33MF	20%	16V
C204	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C205	1-123-379-00	ELECT	0.47MF	20%	50V
C206	1-123-380-00	ELECT	1MF	20%	50V
C207	1-123-381-00	ELECT	2.2MF	20%	50V
C208	1-124-655-11	ELECT	0.47MF	20%	50V
C209	1-123-356-00	ELECT	10MF	20%	16V
C210	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C251	1-123-324-00	ELECT	1000MF	20%	16V
C252	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C253	1-123-381-00	ELECT	2.2MF	20%	50V
C254	1-123-332-00	ELECT	47MF	20%	16V
C255	1-123-323-00	ELECT	470MF	20%	16V
C256	1-106-220-00	MYLAR	0.1MF	10%	100V
C305	1-123-380-00	ELECT	1MF	20%	50V
C306	1-123-380-00	ELECT	1MF	20%	50V
C307	1-123-356-00	ELECT	10MF	20%	16V
C308	1-102-963-00	CERAMIC	33PF	5%	50V
C309	1-102-111-00	CERAMIC	270PF	10%	50V
C310	1-102-111-00	CERAMIC	270PF	10%	50V
C311	1-123-380-00	ELECT	1MF	20%	50V
C312	1-123-380-00	ELECT	1MF	20%	50V
C313	1-102-074-00	CERAMIC	0.001MF	10%	50V
C314	1-123-369-00	ELECT	4.7MF	20%	25V
C315	1-123-356-00	ELECT	10MF	20%	16V
C316	1-108-620-91	MYLAR	0.0033MF	10%	100V
C317	1-101-004-00	CERAMIC	0.01MF		50V
C318	1-123-380-00	ELECT	1MF	20%	50V
C319	1-161-055-00	CERAMIC	0.022MF	10%	50V
C320	1-123-608-00	ELECT	0.22MF	20%	50V
C321	1-161-055-00	CERAMIC	0.022MF	10%	50V
C322	1-102-074-00	CERAMIC	0.001MF	10%	50V
C323	1-123-332-00	ELECT	47MF	20%	16V
C324	1-123-356-00	ELECT	10MF	20%	16V
C325	1-161-330-00	CERAMIC	0.01MF	30%	25V
C326	1-101-004-00	CERAMIC	0.01MF		50V
C327	1-123-380-00	ELECT	1MF	20%	50V
C328	1-123-380-00	ELECT	1MF	20%	50V

·The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
C329	1-101-004-00	CERAMIC	0.01MF		50V
C330	1-123-356-00	ELECT	10MF	20%	16V
C331	1-123-332-00	ELECT	47MF	20%	16V
C333	1-102-106-00	CERAMIC	100PF	10%	50V
C334	1-102-106-00	CERAMIC	100PF	10%	50V
C335	1-102-106-00	CERAMIC	100PF	10%	50V
C336	1-102-074-00	CERAMIC	0.001MF	10%	50V
C501	1-106-212-00	MYLAR	0.047MF	10%	100V
C502	1-108-614-91	MYLAR	0.001MF	10%	100V
C503	1-123-380-00	ELECT	1MF	20%	50V
C504	1-108-616-91	MYLAR	0.0015MF	10%	100V
C506	1-106-196-00	MYLAR	0.01MF	10%	100V
C507	1-108-630-91	MYLAR	0.022MF	10%	100V
C508	1-123-380-00	ELECT	1MF	20%	50V
C509	1-123-380-00	ELECT	1MF	20%	50V
C510	1-108-630-91	MYLAR	0.022MF	10%	100V
C511	1-106-180-00	MYLAR	0.0022MF	5%	100V
C512	1-129-794-00	FILM	0.0033MF	2%	100V
C513	1-123-380-00	ELECT	1MF	20%	50V
C514	1-123-321-00	ELECT	220MF	20%	16V
C515	1-106-212-00	MYLAR	0.047MF	5%	100V
C518	1-131-371-00	TANTALUM	10MF	20%	16V
C519	1-136-173-00	FILM	0.47MF	5%	50V
C520	1-123-333-00	ELECT	100MF	20%	16V
C521	1-123-380-00	ELECT	1MF	20%	50V
C522	1-106-196-00	MYLAR	0.01MF	10%	100V
C523	1-123-380-00	ELECT	1MF	20%	50V
C524	1-106-210-00	MYLAR	0.039MF	10%	100V
C525	1-123-324-00	ELECT	1000MF	20%	16V
C527	1-102-973-00	CERAMIC	100PF	5%	50V
C551	1-102-244-00	CERAMIC	220PF	10%	500V
C552	1-102-244-00	CERAMIC	220PF	10%	500V
C553	1-123-360-00	ELECT	100MF	20%	50V
C554	1-106-196-00	MYLAR	0.01MF	10%	100V
C555	1-124-117-00	ELECT	680MF	10%	25V
C556	1-108-622-91	MYLAR	0.0047MF	10%	100V
C557	1-161-271-00	CERAMIC	100PF	5%	50V
C801	1-123-024-00	ELECT	33MF		160V
C802	1-102-114-00	CERAMIC	470PF	10%	50V
C803	1-106-367-00	MYLAR	0.01MF	10%	200V
C804	1-102-038-00	CERAMIC	0.001MF		500V
C805	1-102-244-00	CERAMIC	220PF	10%	500V
C806	1-102-212-00	CERAMIC	820PF	10%	500V
C807	1-136-236-11	FILM	0.47MF	5%	400V
C808	1-106-367-00	MYLAR	0.01MF	10%	200V
C809	⚠ 1-162-115-00	CERAMIC	330PF	10%	2KV
C810	1-106-200-00	MYLAR	0.015MF	10%	100V
C812	⚠ 1-136-092-00	FILM	0.0072MF	3%	2KV
C813	1-101-880-00	CERAMIC	47PF	5%	50V
C814	1-102-112-00	CERAMIC	330PF	10%	50V
C816	1-102-074-00	CERAMIC	0.001MF	10%	50V
C817	1-162-132-51	CERAMIC	270PF	10%	2KV
C821	1-108-630-91	MYLAR	0.022MF	10%	100V

Ref.No.	Part No.	Description			Remark
C822	1-102-228-00	CERAMIC	470PF	10%	500V
C823	1-102-002-00	CERAMIC	680PF	10%	500V
C824	1-124-002-11	ELECT	1MF	20%	50V
C825	1-123-332-00	ELECT	47MF	20%	25V
C826	1-106-200-00	MYLAR	0.015MF	10%	100V
C827	1-136-060-00	FILM	0.047MF	5%	400V
C851	1-123-948-00	ELECT	22MF	20%	250V
C852	1-102-223-00	CERAMIC	0.0047MF	10%	2KV
C853	1-102-038-00	CERAMIC	0.001MF		500V
C854	1-123-334-00	ELECT	220MF	20%	25V
C855	1-123-356-00	ELECT	10MF	20%	50V
C856	1-102-038-00	CERAMIC	0.001MF		500V
C857	1-108-425-00	MYLAR	0.022MF	10%	200V
C858	1-101-004-00	CERAMIC	0.01MF		50V
C859	1-123-333-00	ELECT	100MF	20%	16V
C860	1-102-228-00	CERAMIC	470PF	10%	500V
C861	1-101-880-00	CERAMIC	47PF	5%	50V
C863	1-123-349-00	ELECT	1000MF	20%	35V

TRIMMER

Ref.No.	Part No.	Description
CV301	1-141-181-11	CAP, TRIMMER

DIODE

Ref.No.	Part No.	Description
D001	8-719-936-66	DIODE SLH-34MC3
D002	8-719-936-66	DIODE SLH-34MC3
D003	8-719-936-66	DIODE SLH-34MC3
D004	8-719-936-66	DIODE SLH-34MC3
D005	8-719-936-66	DIODE SLH-34MC3
D006	8-719-936-66	DIODE SLH-34MC3
D007	8-719-936-66	DIODE SLH-34MC3
D008	8-719-936-66	DIODE SLH-34MC3
D009	8-719-911-19	DIODE 1SS119
D010	8-719-911-19	DIODE 1SS119
D011	8-719-911-19	DIODE 1SS119
D012	8-719-911-19	DIODE 1SS119
D013	8-719-911-19	DIODE 1SS119
D014	8-719-102-72	DIODE RD5.6E-N3
D015	8-719-101-40	DIODE RD3.9E-L1
D016	8-719-901-96	DIODE SLP161B
D017	8-719-912-61	DIODE SLP261B
D018	8-719-901-96	DIODE SLP161B
D019	8-719-911-19	DIODE 1SS119
D020	8-719-911-19	DIODE 1SS119
D021	8-719-911-19	DIODE 1SS119
D151	8-719-911-19	DIODE 1SS119
D152	8-719-911-19	DIODE 1SS119
D201	8-719-101-76	DIODE RD10E-L2
D301	8-719-911-19	DIODE 1SS119
D302	8-719-911-19	DIODE 1SS119
D303	8-719-911-19	DIODE 1SS119
D306	8-719-911-19	DIODE 1SS119
D501	8-719-911-19	DIODE 1SS119
D502	8-719-911-19	DIODE 1SS119

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A

Ref.No.	Part No.	Description	Remark
D503	8-719-911-19	DIODE 1SS119	
D504	8-719-911-19	DIODE 1SS119	
D551	8-719-200-02	DIODE 10E2	
D821	8-719-200-02	DIODE 10E2	
D822	8-719-200-02	DIODE 10E2	
D823	8-719-200-02	DIODE 10E2	
D851	8-719-901-93	DIODE V19E	
D852	8-719-903-09	DIODE V30N	
D853	8-719-901-93	DIODE V19E	
D854	8-719-200-02	DIODE 10E2	
D855	8-719-901-93	DIODE V19E	
D856	8-719-102-99	DIODE RD13E-N1	
D857	8-719-102-26	DIODE RD30E-L4	

DELAY LINE

Ref.No.	Part No.	Description	Remark
DL301	1-415-122-31	DELAY LINE, 1H (PAL)	

IC

Ref.No.	Part No.	Description	Remark
IC001	8-759-602-58	IC CX531-512P	
IC002	8-759-602-52	IC M58658P	
IC006	8-759-157-40	IC UPC574J	
IC151	8-759-800-12	IC LA7920	
IC251	8-759-101-77	IC UPC1241H	
IC301	8-752-030-22	IC CXA1001P	
IC501	8-759-100-60	IC UPC1377C	
IC551	8-759-801-98	IC LA7830	

IF BLOCK

Ref.No.	Part No.	Description	Remark
IF201	1-464-553-11	IF BLOCK (IFB-389)	

COIL

Ref.No.	Part No.	Description	Remark
L001	1-408-409-00	MICRO INDUCTOR 10UH	
L003	1-408-247-00	MICRO INDUCTOR 33MMH	
L151	1-408-443-31	MICRO INDUCTOR 12UH	
L201	1-408-397-00	MICRO INDUCTOR 1UH	
L302	1-408-244-00	MICRO INDUCTOR 18MMH	
L303	1-408-415-00	MICRO INDUCTOR 33UH	
L304	1-408-409-00	MICRO INDUCTOR 10UH	
L305	1-408-405-00	MICRO INDUCTOR 4.7UH	
L801	1-407-556-00	CHOKE COIL	
L803	1-407-365-00	COIL, CHOKE	
L804	1-421-013-00	COIL, (HORIZONTAL CHOKE) 25MH	
L805	1-459-496-00	COIL, FERRITE (HLC)	
L806	1-459-315-00	COIL, VAR, FERRITE (HWC)	
L821	1-459-105-21	COIL(WITH CORE)	
L822	1-407-494-00	MICRO INDUCTOR 1.5MMH	
L851	1-408-240-00	MICRO INDUCTOR 6.8MMH	
L852	1-408-397-00	MICRO INDUCTOR 1UH	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q001	8-729-212-02	TRANSISTOR 2SC2120-Y	
Q002	8-729-204-83	TRANSISTOR 2SA1048GR	
Q003	8-729-204-83	TRANSISTOR 2SA1048GR	
Q004	8-729-204-83	TRANSISTOR 2SA1048GR	
Q005	8-729-245-83	TRANSISTOR 2SC2458	
Q006	8-729-900-36	TRANSISTOR DTC124ES	
Q007	8-729-900-63	TRANSISTOR DTA124ES	
Q008	8-729-900-36	TRANSISTOR DTC124ES	
Q011	8-729-245-83	TRANSISTOR 2SC2458	
Q012	8-729-900-36	TRANSISTOR DTC124ES	
Q151	8-729-245-83	TRANSISTOR 2SC2458	
Q201	8-729-204-83	TRANSISTOR 2SA1048GR	
Q202	8-729-212-02	TRANSISTOR 2SC2120-Y	
Q210	8-729-900-36	TRANSISTOR DTC124ES	
Q211	8-729-115-30	TRANSISTOR 2SK105A-30	
Q301	8-729-245-83	TRANSISTOR 2SC2458	
Q302	8-729-245-83	TRANSISTOR 2SC2458	
Q306	8-729-204-83	TRANSISTOR 2SA1048GR	
Q307	8-729-900-83	TRANSISTOR DTC124XS	
Q801	8-729-168-82	TRANSISTOR 2SC2688	
Q802	8-729-206-04	TRANSISTOR 2SD1554-LB	
Q804	8-729-245-83	TRANSISTOR 2SC2458	
Q821	8-729-378-91	TRANSISTOR 2SD789	
Q851	8-729-313-42	TRANSISTOR 2SD1134	
	*4-323-833-00	HEAT SINK, PIN OUT; Q851	

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-247-119-00	CARBON	330	5%	1/4W	
R002	1-247-703-11	CARBON	180	5%	1/4W	
R003	1-247-703-11	CARBON	180	5%	1/4W	
R004	1-247-143-00	CARBON	3.3K	5%	1/4W	
R005	1-247-843-00	CARBON	3.3K	5%	1/6W	
R006	1-249-429-11	CARBON	10K	5%	1/6W	
R007	1-249-434-11	CARBON	27K	5%	1/6W	
R008	1-247-827-00	CARBON	680	5%	1/6W	
R009	1-247-815-00	CARBON	220	5%	1/6W	
R010	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R011	1-247-863-00	CARBON	22K	5%	1/6W	
R012	1-249-429-11	CARBON	10K	5%	1/6W	
R013	1-249-429-11	CARBON	10K	5%	1/6W	
R014	1-247-717-11	CARBON	2.2K	5%	1/4W	
R015	1-247-843-00	CARBON	3.3K	5%	1/6W	
R016	1-247-843-00	CARBON	3.3K	5%	1/6W	
R017	1-247-843-00	CARBON	3.3K	5%	1/6W	
R018	1-247-843-00	CARBON	3.3K	5%	1/6W	
R026	1-247-847-00	CARBON	4.7K	5%	1/6W	
R027	1-247-847-00	CARBON	4.7K	5%	1/6W	
R028	1-247-713-11	CARBON	1K	5%	1/4W	
R029	1-247-713-11	CARBON	1K	5%	1/4W	
R050	1-247-817-00	CARBON	270	5%	1/6W	
R051	1-247-817-00	CARBON	270	5%	1/6W	
R052	1-247-817-00	CARBON	270	5%	1/6W	
R053	1-247-817-00	CARBON	270	5%	1/6W	
R054	1-247-817-00	CARBON	270	5%	1/6W	
R055	1-247-817-00	CARBON	270	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R075	1-249-429-11	CARBON	10K	5%	1/6W	
R076	1-247-863-00	CARBON	22K	5%	1/6W	
R077	1-247-897-00	CARBON	560K	5%	1/6W	
R078	1-249-429-11	CARBON	10K	5%	1/6W	
R151	1-247-863-00	CARBON	22K	5%	1/6W	
R156	1-247-167-00	CARBON	33K	5%	1/4W	
R157	1-247-891-00	CARBON	330K	5%	1/6W	
R158	1-249-429-11	CARBON	10K	5%	1/6W	
R159	1-247-708-11	CARBON	470	5%	1/4W	
R201	1-247-807-00	CARBON	100	5%	1/6W	
R202	1-247-127-00	CARBON	680	5%	1/4W	
R203	1-247-831-00	CARBON	1K	5%	1/6W	
R204	1-247-847-00	CARBON	4.7K	5%	1/6W	
R205	1-247-863-00	CARBON	22K	5%	1/6W	
R206	1-247-867-00	CARBON	33K	5%	1/6W	
R207	1-247-867-00	CARBON	33K	5%	1/6W	
R208	1-247-831-00	CARBON	1K	5%	1/6W	
R209	1-247-143-00	CARBON	3.3K	5%	1/4W	
R210	1-247-831-00	CARBON	1K	5%	1/6W	
R211	1-247-863-00	CARBON	22K	5%	1/6W	
R251	1-216-359-00	METAL OXIDE	6.8	5%	1W	F
R252	1-247-863-00	CARBON	22K	5%	1/6W	
R253	1-249-421-11	CARBON	2.2K	5%	1/6W	
R254	1-249-447-11	CARBON	1	5%	1/4W	
R256	1-247-853-00	CARBON	8.2K	5%	1/6W	
R270	1-249-437-11	CARBON	47K	5%	1/6W	
R271	1-247-897-00	CARBON	560K	5%	1/6W	
R272	1-246-525-00	CARBON	150K	5%	1/4W	
R273	1-247-903-00	CARBON	1M	5%	1/6W	
R279	1-249-437-11	CARBON	47K	5%	1/6W	
R305	1-247-845-00	CARBON	3.9K	5%	1/6W	
R306	1-247-837-00	CARBON	1.8K	5%	1/6W	
R307	1-247-853-00	CARBON	8.2K	5%	1/6W	
R308	1-249-421-11	CARBON	2.2K	5%	1/6W	
R309	1-247-853-00	CARBON	8.2K	5%	1/6W	
R310	1-247-889-00	CARBON	270K	5%	1/6W	
R311	1-247-903-00	CARBON	1M	5%	1/6W	
R312	1-249-437-11	CARBON	47K	5%	1/6W	
R313	1-247-863-00	CARBON	22K	5%	1/6W	
R314	1-247-897-00	CARBON	560K	5%	1/6W	
R315	1-246-523-00	CARBON	120K	5%	1/4W	
R316	1-247-879-00	CARBON	100K	5%	1/6W	
R317	1-247-879-00	CARBON	100K	5%	1/6W	
R318	1-247-879-00	CARBON	100K	5%	1/6W	
R319	1-247-704-11	CARBON	220	5%	1/4W	
R320	1-247-704-11	CARBON	220	5%	1/4W	
R321	1-247-704-11	CARBON	220	5%	1/4W	
R322	1-247-827-00	CARBON	680	5%	1/6W	
R323	1-247-718-11	CARBON	2.7K	5%	1/4W	
R324	1-247-859-00	CARBON	15K	5%	1/6W	
R325	1-247-851-00	CARBON	6.8K	5%	1/6W	
R326	1-247-849-00	CARBON	5.6K	5%	1/6W	
R327	1-247-145-00	CARBON	3.9K	5%	1/4W	
R328	1-247-869-00	CARBON	39K	5%	1/6W	
R329	1-247-883-00	CARBON	150K	5%	1/6W	
R330	1-247-849-00	CARBON	5.6K	5%	1/6W	
R331	1-247-837-00	CARBON	1.8K	5%	1/6W	
R332	1-247-849-00	CARBON	5.6K	5%	1/6W	
R333	1-247-821-00	CARBON	390	5%	1/6W	
R334	1-247-831-00	CARBON	1K	5%	1/6W	
R339	1-247-823-00	CARBON	470	5%	1/6W	
R342	1-247-859-00	CARBON	15K	5%	1/6W	
R343	1-247-853-00	CARBON	8.2K	5%	1/6W	
R344	1-247-875-00	CARBON	68K	5%	1/6W	
R345	1-247-875-00	CARBON	68K	5%	1/6W	
R346	1-249-429-11	CARBON	10K	5%	1/6W	
R347	1-249-421-11	CARBON	2.2K	5%	1/6W	
R350	1-247-863-00	CARBON	22K	5%	1/6W	
R355	1-247-859-00	CARBON	15K	5%	1/6W	
R357	1-249-437-11	CARBON	47K	5%	1/6W	
R358	1-247-841-00	CARBON	2.7K	5%	1/6W	
R359	1-247-718-11	CARBON	2.7K	5%	1/4W	
R360	1-249-437-11	CARBON	47K	5%	1/6W	
R361	1-247-151-00	CARBON	6.8K	5%	1/4W	
R362	1-247-843-00	CARBON	3.3K	5%	1/6W	
R363	1-249-419-11	CARBON	1.5K	5%	1/6W	
R364	1-249-421-11	CARBON	2.2K	5%	1/6W	
R365	1-247-831-00	CARBON	1K	5%	1/6W	
R366	1-247-867-00	CARBON	33K	5%	1/6W	
R367	1-247-843-00	CARBON	3.3K	5%	1/6W	
R368	1-247-843-00	CARBON	3.3K	5%	1/6W	
R369	1-247-843-00	CARBON	3.3K	5%	1/6W	
R370	1-247-851-00	CARBON	6.8K	5%	1/6W	
R371	1-247-891-00	CARBON	330K	5%	1/6W	
R372	1-249-421-11	CARBON	2.2K	5%	1/6W	
R373	1-247-143-00	CARBON	3.3K	5%	1/4W	
R501	1-247-819-00	CARBON	330	5%	1/6W	
R502	1-247-117-00	CARBON	270	5%	1/4W	
R503	1-249-427-11	CARBON	6.8K	5%	1/6W	F
R504	1-247-877-00	CARBON	82K	5%	1/6W	
R505	1-247-843-00	CARBON	3.3K	5%	1/6W	
R506	1-247-868-00	CARBON	36K	5%	1/6W	
R507	1-247-857-00	CARBON	12K	5%	1/6W	
R511	1-247-877-00	CARBON	82K	5%	1/6W	
R512	1-216-440-00	METAL OXIDE	18K	5%	1W	F
R513	1-247-843-00	CARBON	3.3K	5%	1/6W	
R514	1-215-460-00	METAL	43K	1%	1/6W	
R515	1-247-721-11	CARBON	4.7K	5%	1/4W	
R517	1-247-859-00	CARBON	15K	5%	1/6W	
R519	1-247-847-00	CARBON	4.7K	5%	1/6W	
R522	1-215-463-00	METAL	56K	1%	1/6W	
R524	1-214-783-00	METAL	180K	1%	1/4W	
R525	1-215-455-00	METAL	27K	1%	1/6W	
R526	1-247-873-00	CARBON	56K	5%	1/6W	
R527	1-247-841-00	CARBON	2.7K	5%	1/6W	
R528	1-247-845-00	CARBON	3.9K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R529	1-215-461-00	METAL	47K	1%	1/6W	
R530	1-249-393-11	CARBON	10	5%	1/6W	F
R532	1-247-127-00	CARBON	680	5%	1/4W	
R534	1-249-429-11	CARBON	10K	5%	1/6W	
R535	1-247-831-00	CARBON	1K	5%	1/6W	
R539	1-247-725-11	CARBON	10K	5%	1/4W	
R552	1-247-226-00	CARBON	270	5%	1/2W	
R553	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R554	1-215-867-00	METAL OXIDE	470	5%	1W	F
R801	1-247-119-00	CARBON	330	5%	1/4W	
R802	1-247-847-00	CARBON	4.7K	5%	1/6W	
R803	1-205-642-00	CEMENTED	3.3K	10%	5W	
R804	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R807	1-215-867-00	METAL OXIDE	470	5%	1W	F
R808	1-215-883-11	METAL OXIDE	33	5%	2W	F
R809	1-247-887-00	CARBON	220K	5%	1/6W	
R811	1-247-867-00	CARBON	33K	5%	1/6W	
R812	1-247-831-00	CARBON	1K	5%	1/6W	
R813	1-247-847-00	CARBON	4.7K	5%	1/6W	
R814	1-249-429-11	CARBON	10K	5%	1/6W	F
R815	1-247-827-00	CARBON	680	5%	1/6W	
R816	1-249-427-11	CARBON	6.8K	5%	1/6W	F
R821	1-202-830-00	SOLID	10K		1/2W	
R822	1-202-814-51	SOLID	33K		1/2W	
R823	1-247-863-00	CARBON	22K	5%	1/6W	
R824	1-216-426-11	METAL OXIDE	82	5%	1W	F
R825	1-249-402-11	CARBON	56	5%	1/6W	F
R826	1-247-847-00	CARBON	4.7K	5%	1/6W	
R827	1-247-845-00	CARBON	3.9K	5%	1/6W	
R828	1-247-867-00	CARBON	33K	5%	1/6W	
R829	1-249-421-11	CARBON	2.2K	5%	1/6W	F
R830	1-215-857-11	METAL OXIDE	10	5%	1W	F
R832	1-215-859-00	METAL OXIDE	22	5%	1W	F
R851	1-249-382-11	CARBON	1.2	5%	1/6W	F
R852	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R853	1-249-377-11	CARBON	0.47	5%	1/6W	F
R854	1-249-377-11	CARBON	0.47	5%	1/6W	F
R855	1-202-830-00	SOLID	10K		1/2W	
R856	1-247-151-00	CARBON	6.8K	5%	1/4W	
R857	1-246-527-00	CARBON	180K	5%	1/4W	
R858	1-247-849-00	CARBON	5.6K	5%	1/6W	
R859	1-215-866-11	METAL OXIDE	330	5%	1W	F
R860	1-247-883-00	CARBON	150K	5%	1/6W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV251	1-230-794-11	RES, VAR, SLIDE 10K	
RV302	1-228-989-00	RES, ADJ, CARBON 470	
RV303	1-228-994-00	RES, ADJ, CARBON 10K	
RV304	1-228-995-00	RES, ADJ, CARBON 22K	
RV305	1-230-936-11	RES, VAR, CARBON 10KX4	
RV306	1-230-936-11	RES, VAR, CARBON 10KX4	
RV307	1-230-936-11	RES, VAR, CARBON 10KX4	
RV501	1-228-160-11	RES, ADJ, METAL GLAZE 5K	
RV502	1-228-989-00	RES, ADJ, CARBON 470	
RV503	1-228-989-00	RES, ADJ, CARBON 470	
RV505	1-230-936-11	RES, VAR, CARBON 10KX4	
RV551	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K	
RV801	1-223-102-00	RES, ADJ, WIREWOUND 120	
RV821	1-228-997-00	RES, ADJ, CARBON 100K	

SWITCH

Ref.No.	Part No.	Description	Remark
S001	1-554-804-11	SWITCH, PUSH (1 KEY)	
S002	1-554-804-11	SWITCH, PUSH (1 KEY)	
S003	1-554-804-11	SWITCH, PUSH (1 KEY)	
S004	1-554-804-11	SWITCH, PUSH (1 KEY)	
S005	1-554-804-11	SWITCH, PUSH (1 KEY)	
S006	1-554-804-11	SWITCH, PUSH (1 KEY)	
S007	1-554-804-11	SWITCH, PUSH (1 KEY)	
S008	1-554-804-11	SWITCH, PUSH (1 KEY)	
S009	1-554-804-11	SWITCH, PUSH (1 KEY)	
S010	1-554-804-11	SWITCH, PUSH (1 KEY)	
S011	1-554-804-11	SWITCH, PUSH (1 KEY)	
S012	1-554-804-11	SWITCH, PUSH (1 KEY)	
S013	1-554-804-11	SWITCH, PUSH (1 KEY)	
S014	1-554-824-11	SWITCH, PUSH (1 KEY)	

SPARK GAP

Ref.No.	Part No.	Description	Remark
SG801	1-519-063-XX	DISCHARGING GAP	

TRANSFORMER

Ref.No.	Part No.	Description	Remark
T301	1-404-524-11	DAT	
T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
T802	1-421-268-00	H.PCT	
T851	⚠ 1-439-311-31	TRANSFORMER ASSY, FLYBACK	

TUNER

Ref.No.	Part No.	Description	Remark
TU151	⚠ 1-463-584-11	TUNER, ET (BT-881A)	

CRYSTAL

Ref.No.	Part No.	Description	Remark
X001	1-567-192-11	OSCILLATOR, CERAMIC	
X301	1-527-345-00	CRYSTAL, OSC	

MODULE

Ref.No.	Part No.	Description	Remark
YCM301	1-235-268-00	MODULE	

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Ref.No.	Part No.	Description	Remark
	*A-1330-628-A	C BOARD, COMPLETE *****************	
	1-526-819-11	SOCKET, CRT	
	*4-374-912-01	COVER (MAIN), CV VOL	
	*4-374-913-01	COVER (REAR LID), CV VOL	

CONNECTOR

Ref.No.	Part No.	Description	Remark
C1	*1-506-371-00	2P PLUG (L)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
C2	*1-508-786-00	2P PLUG (M)	
C3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
C4	*1-508-765-00	3P PLUG (M)	

CAPACITOR

C702	1-102-112-00	CERAMIC	330PF	10%	50V	
C703	1-102-109-00	CERAMIC	180PF	10%	50V	
C704	1-102-110-00	CERAMIC	220PF	10%	50V	
C705	1-162-116-00	CERAMIC	680PF	10%	2KV	
C706	1-129-714-00	FILM	0.01MF	10%	630V	

COIL

L704	1-408-457-31	MICRO INDUCTOR 180UH

TRANSISTOR

Q701	8-729-326-11	TRANSISTOR 2SC2611
Q702	8-729-326-11	TRANSISTOR 2SC2611
Q703	8-729-326-11	TRANSISTOR 2SC2611

RESISTOR

R701	1-247-847-00	CARBON	4.7K	5%	1/6W	
R703	1-247-819-00	CARBON	330	5%	1/6W	
R704	1-247-843-00	CARBON	3.3K	5%	1/6W	
R705	1-202-824-00	SOLID	3.3K		1/2W	
R706	1-216-463-00	METAL OXIDE	12K	5%	2W	F
R707	1-247-841-00	CARBON	2.7K	5%	1/6W	
R708	1-247-825-00	CARBON	560	5%	1/6W	
R709	1-247-825-00	CARBON	560	5%	1/6W	
R710	1-247-843-00	CARBON	3.3K	5%	1/6W	
R711	1-202-824-00	SOLID	3.3K		1/2W	
R712	1-216-463-00	METAL OXIDE	12K	5%	2W	F
R713	1-247-841-00	CARBON	2.7K	5%	1/6W	
R714	1-247-825-00	CARBON	560	5%	1/6W	
R715	1-247-825-00	CARBON	560	5%	1/6W	
R716	1-247-843-00	CARBON	3.3K	5%	1/6W	
R717	1-202-824-00	SOLID	3.3K		1/2W	
R718	1-216-463-00	METAL OXIDE	12K	5%	2W	F
R719	1-202-842-51	SOLID	220K		1/2W	
R720	1-202-719-00	SOLID	1M	10%	1/2W	
R721	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R722	1-202-848-00	SOLID	680K		1/2W	
R723	1-202-838-00	SOLID	100K		1/2W	
R724	1-247-849-00	CARBON	5.6K	5%	1/6W	
R731	1-247-807-00	CARBON	100	5%	1/6W	
R732	1-247-807-00	CARBON	100	5%	1/6W	
R733	1-247-807-00	CARBON	100	5%	1/6W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV701	1-230-104-00	RES, ADJ, CARBON 4.7K	
RV702	1-230-105-00	RES, ADJ, CARBON 3.3K	
RV703	1-230-104-00	RES, ADJ, CARBON 4.7K	
RV704	1-230-105-00	RES, ADJ, CARBON 3.3K	
RV705	1-230-104-00	RES, ADJ, CARBON 4.7K	
RV706	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV707	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV708	⚠1-230-798-11	RES, ADJ, METAL GLAZE 90M	
RV709	1-230-409-11	RES, ADJ, CARBON 22K	

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MISCELLANEOUS
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	⚠1-451-249-11	DEFLECTION YOKE (SY-125B)	
	1-452-032-00	MAGNET, DISK; 10MM ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
	1-452-277-00	MAGNET, BMC	
	⚠1-534-817-71	CORD, POWER	
	*1-534-805-00	PIN CABLE	
	⚠1-536-933-11	TERMINAL BOARD, ANTENNA	
L901	⚠1-426-145-00	COIL, DEGAUSSING	
SW901	⚠1-554-967-11	SWITCH, PUSH (AC POWER)(1 KEY)	
SP901	1-503-344-11	SPEAKER	
V901	⚠8-735-553-05	CRT (A34JBU10X)	

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ACCESSORIES AND PACKING MATERIALS
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Part No.	Description	Remark
1-501-329-11	ANTENNA, TELESCOPIC	
1-513-382-00	ANTENNA MUTCHING	
4-316-037-00	BAG, POLYETHYLENE	
4-374-990-01	CUSHION (UPPER) (ASSY)	
4-374-991-01	CUSHION (LOWER) (ASSY)	
4-376-544-01	INDIVIDUAL CARTON	
4-482-081-51	MANUAL, INSTRUCTION	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MEMO

SONY
TRINITRON® COLOR TV
KV-1440E

E Model
Chassis No. SCC-714A-A

XE-5 CHASSIS

WARNING !!

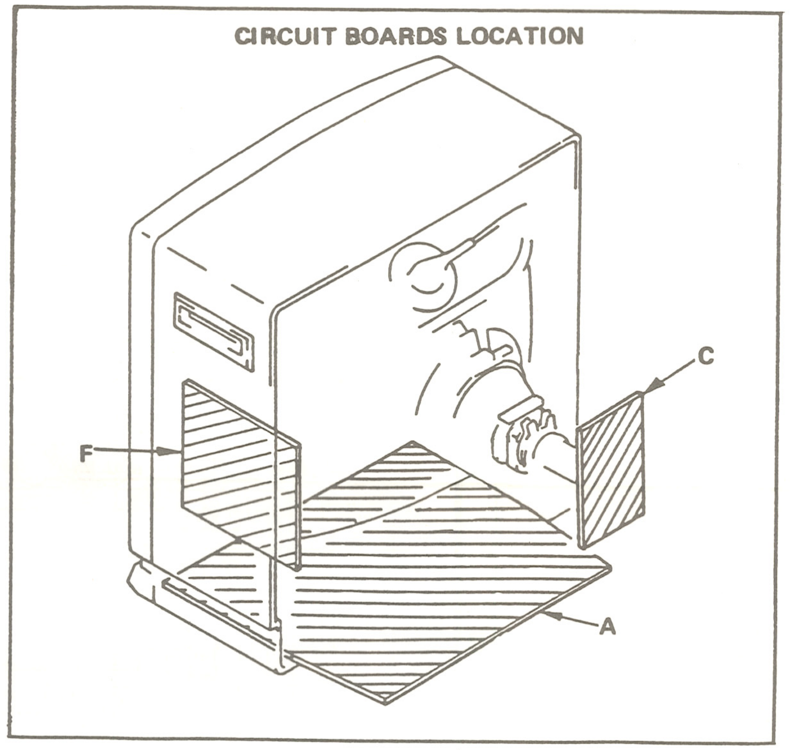
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

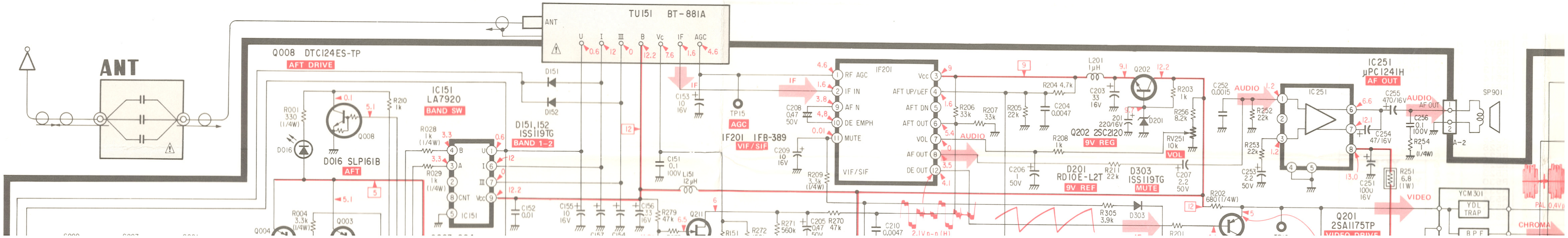
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- All Capacitors are in μF unless otherwise noted, pF: μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000kΩ
- ▭ : nonflamable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 100MΩ digital multimeter.
- Reading are taken with a PAL color-bar signal input.
- —— : B+ bus.
- Voltage variations may be noted due to normal production tolerances.
- ▭ : adjustment for repair.
- ∗ : Selected to yield optimum performance.


CIRCUIT BOARDS LOCATION
C
F
A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Q008 DTC124ES-TP
AFT DRIVE
IC151
LA7920
BAND SW
D151,152
ISS119TG
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D016 SLP161B
AFT
IF201 IFB-389
VIF/SIF
AGC
TP15
RF AGC
IF IN
AF N
DE EMPH
MUTE
VIF/SIF
Vcc
AFT UP/DEF
AFT DN
AFT OUT
VOL
AF OUT
DE OUT
Q202 2SC2120
9V REG
D201 RD10E-L2T
9V REF
D303 ISS119TG
MUTE
RV251 10k
VOL
IC251
μPC1241H
AF OUT
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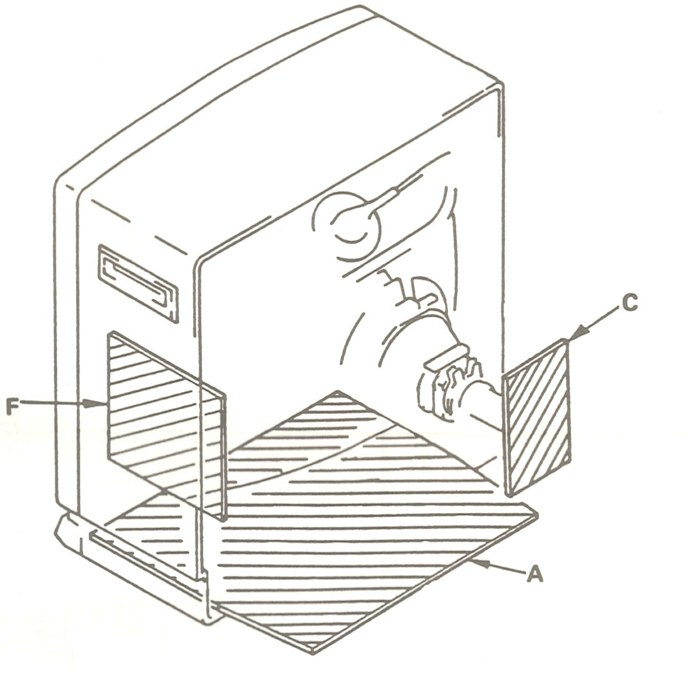
VIDEO DRIVE
VIDEO
YCM301
YDL TRAP
CHROMA

CIRCUIT BOARDS LOCATION



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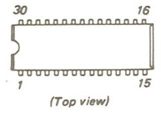
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(Top view)

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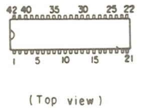
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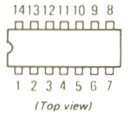
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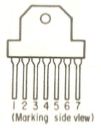
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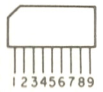

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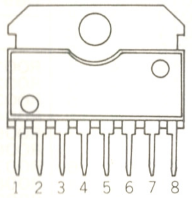

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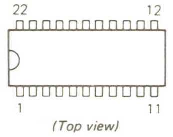
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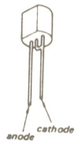
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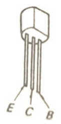

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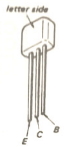
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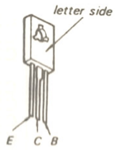
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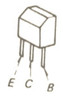

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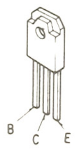

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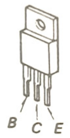

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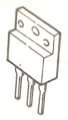

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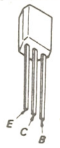

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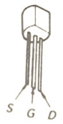

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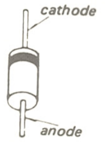
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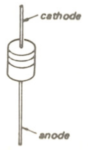
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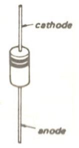
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RD13E-N1
RD15E-L2
RD3.9E-L1
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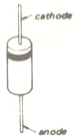
RD5.6E-N3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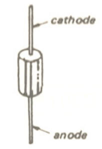
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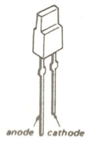
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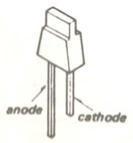
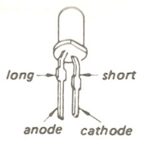
cathode

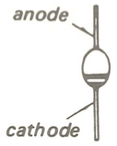
SLP261B

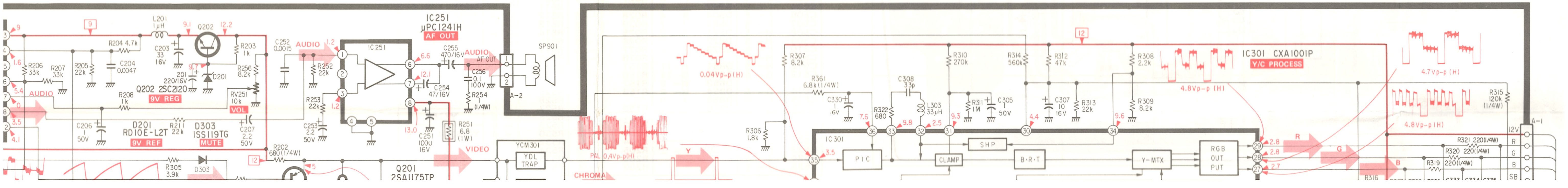

anode
cathode

TLG123A

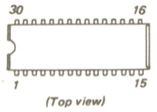

long
short
anode
cathode

V19E
V30N

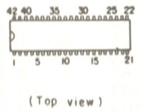

anode
cathode


L201
1μH
Q202
R204 4.7k
C203
33
16V
R203
1k
R206
33k
R207
33k
R205
22k
C204
0.0047
R256
8.2k
D201
Q202 2SC2120
9V REG
R208
1k
RV251
10k
VOL
AUDIO
C206
1
50V
D201
RD10E-L2T
9V REF
R211
22k
D303
1SS119TG
MUTE
C207
2.2
50V
R305
3.9k
D303
R202
680(1/4W)
C252
0.0015
AUDIO
R252
22k
R253
22k
C253
2.2
50V
IC251
IC251
μPC1241H
AF OUT
C255
470/16V
C254
47/16V
C251
100U
16V
R251
6.8
(1W)
AUDIO
AF OUT
C256
0.1
100V
R254
1
(1/4W)
A-2
SP901
Q201
2SA1175TP
VIDEO
YCM301
YDL
TRAP
CHROMA
PAL 0.4Vp-p(H)
0.04Vp-p(H)
Y
R307
8.2k
R306
1.8k
R361
6.8k(1/4W)
C330
1
16V
R322
680
C308
33p
L303
33μH
R310
270k
R311
1M
C305
1
50V
R314
560k
R312
47k
C307
10
16V
R313
22k
R308
2.2k
R309
8.2k
IC301
P I C
CLAMP
SHP
B-R-T
Y-MTX
RGB
OUT
PUT
4.8Vp-p (H)
IC301 CXA1001P
Y/C PROCESS
4.7Vp-p (H)
4.8Vp-p (H)
R315
120k
(1/4W)
R
G
B
R321 220(1/4W)
R320 220(1/4W)
R319 220(1/4W)
R316
A-1
12V
R
G
B
SB

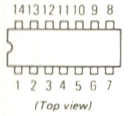
CX531-512P


30
16
1
15
(Top view)

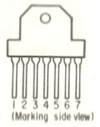
CXA1001P


42 40 35 30 25 22
1 5 10 15 21
(Top view)

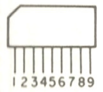
M58658P
µPC1394C


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

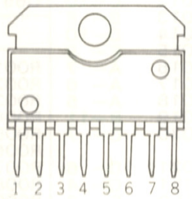
LA7830


1 2 3 4 5 6 7
(Marking side view)

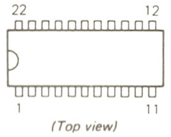
LA7920



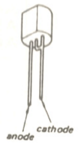
µPC1241H



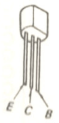
µPC1377C


22
12
1
11
(Top view)

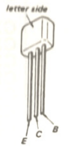
µPC574J


anode
cathode

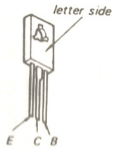
2SA639S-R
2SC2120-Y
2SD789-3



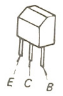
2SA1175
2SC2785


letter side
E C B

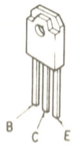
2SC2611
2SC2688-L


letter side
E C B

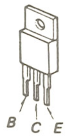
2SC2958



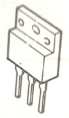
2SC3505F-B



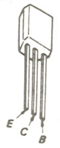
2SD1134-C



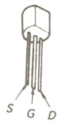
2SD1650-CA



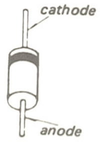
2SA1048-GR
2SC2458
DAC124ES
DTC124ES
DTC124XS



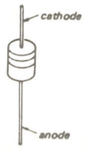
2SK105A-30



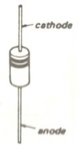
10E2


cathode
anode

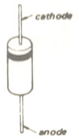
1SS119


cathode
anode

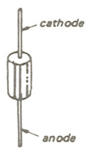
ERC25-06S


cathode
anode

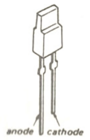
RD10E-L2
RD13E-N1
RD15E-L2
RD3.9E-L1
RD30E-L4
RD5.6E-L2
RD5.6E-N2
RD5.6E-N3


cathode
anode

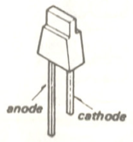
RM11A


cathode
anode

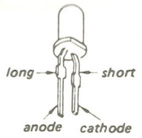
SLP161B


anode
cathode

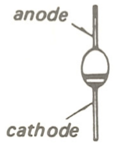
SLP261B

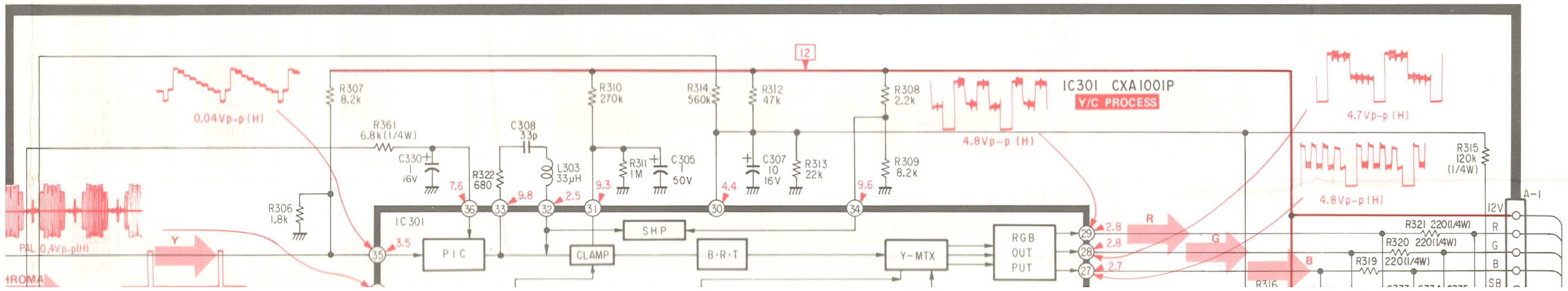

anode
cathode

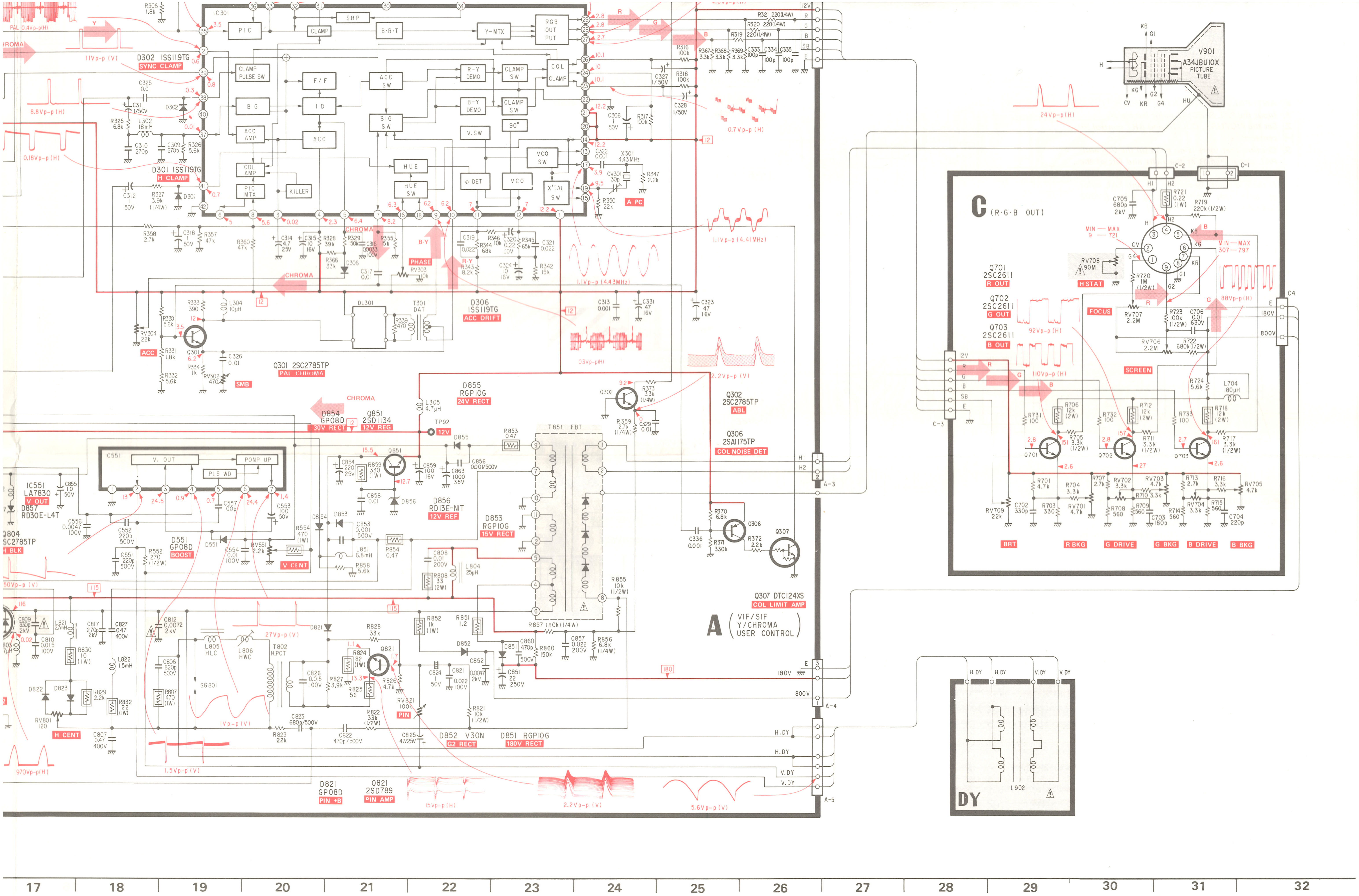
TLG123A


long
short
anode
cathode

V19E
V30N


anode
cathode


IC301 CXA1001P
Y/C PROCESS
12
R307
8.2k
R361
6.8k(1/4W)
C330
16V
R306
1.8k
R322
680
C308
33p
L303
33µH
R310
270k
R311
1M
C305
1
50V
R314
560k
R312
47k
C307
10
16V
R313
22k
R308
2.2k
R309
8.2k
R315
120k
(1/4W)
0.04Vp-p(H)
PAL 0.4Vp-p(H)
CHROMA
Y
4.8Vp-p (H)
4.7Vp-p (H)
4.8Vp-p (H)
7.6
9.8
2.5
9.3
4.4
9.6
3.5
36
33
32
31
30
34
35
29
28
27
2.8
2.8
2.7
IC301
PIC
CLAMP
SHP
B·R·T
Y-MTX
RGB OUT PUT
R
G
B
A-1
12V
R
G
B
SB
R321 220(1/4W)
R320 220(1/4W)
R319 220(1/4W)
R316


IC301
PIC
CLAMP
SHP
B-R-T
Y-MTX
RGB OUT PUT
CLAMP PULSE SW
F/F
ACC SW
R-Y DEMO
CLAMP SW
COL CLAMP
B G
I D
SIG SW
B-Y DEMO
CLAMP SW
ACC AMP
ACC
V.SW
90°
COL AMP
HUE
VCO SW
PIC MTX
KILLER
HUE SW
φ DET
VCO
X'TAL SW
D302 ISS119TG
SYNC CLAMP
D301 ISS119TG
H CLAMP
PAL 0.4Vp-p(H)
CHROMA
Y
1.1Vp-p (V)
8.8Vp-p (H)
0.18Vp-p (H)
0.7Vp-p (H)
1.1Vp-p (4.41MHz)
1.1Vp-p (4.43MHz)
0.3Vp-p(H)
2.2Vp-p (V)
24Vp-p (H)
CHROMA
PHASE
B-Y
R-Y
ACC
SMB
DL301
T301 DAT
D306 ISS119TG
ACC DRIFT
A PC
X301 4.43MHz
Q301 2SC2785TP
PAL CHROMA
D855 RGP10G
24V RECT
D854 GP08D
30V RECT
Q851 2SD1134
12V REG
TP92
12V
Q302 2SC2785TP
ABL
Q306 2SA1175TP
COL NOISE DET
Q307 DTC124XS
COL LIMIT AMP
T851 FBT
IC551
V. OUT
PUMP UP
PLS WD
IC551 LA7830
V OUT
D857 RD30E-L4T
Q804 2SC2785TP
H BLK
D551 GP08D
BOOST
V CENT
D856 RD13E-NIT
12V REF
D853 RGP10G
15V RECT
50Vp-p (V)
27Vp-p (V)
1Vp-p (V)
1.5Vp-p (V)
970Vp-p (H)
15Vp-p (H)
2.2Vp-p (V)
5.6Vp-p (V)
L805 HLC
L806 HWC
T802 H.PCT
SG801
H CENT
PIN
D821 GP08D
PIN +B
Q821 2SD789
PIN AMP
D852 V30N
G2 RECT
D851 RGP10G
180V RECT
A
VIF/SIF
Y/CHROMA
USER CONTROL
V901
A34JBU10X
PICTURE TUBE
C (R·G·B OUT)
Q701 2SC2611
R OUT
Q702 2SC2611
G OUT
Q703 2SC2611
B OUT
RV708 90M
H STAT
FOCUS
SCREEN
MIN — MAX 9 — 721
MIN — MAX 307 — 797
92Vp-p (H)
110Vp-p (H)
88Vp-p (H)
BRT
R BKG
G DRIVE
G BKG
B DRIVE
B BKG
C-1
C-2
C-3
C4
A-3
A-4
A-5
12V
180V
800V
H.DY
V.DY
DY
L902
17
18
19
20
21
22
23
24
25
26
27
28
29
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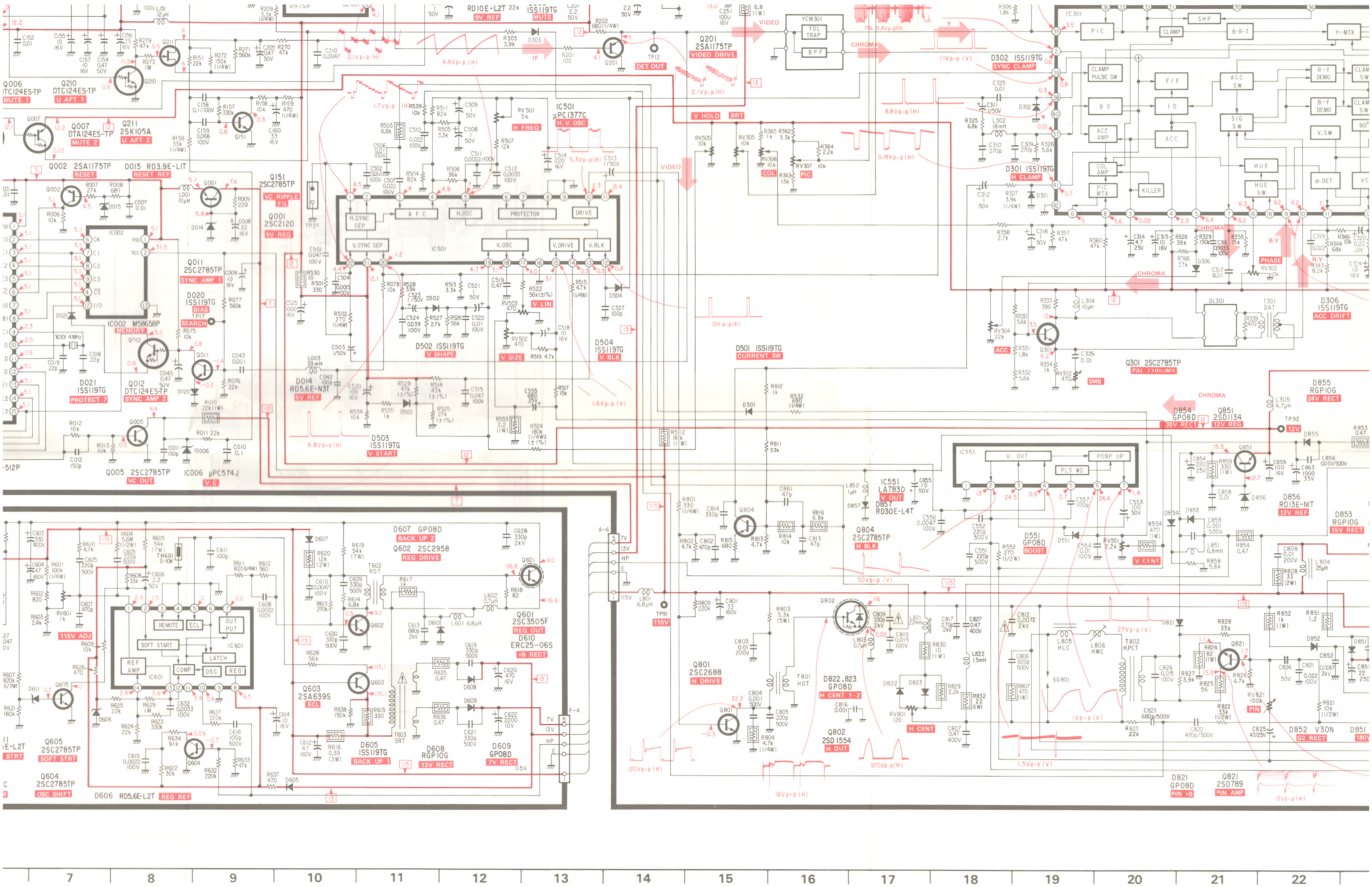
31
32


IC501 μPC1377C
H. V OSC
H.SYNC SEP
AFC
H.OSC
PROTECTOR
DRIVE
V.SYNC SEP
V.OSC
V.DRIVE
V.BLK
Q151 2SC2785TP
VC RIPPLE FIL
Q001 2SC2120
9V REG
Q201 2SA1175TP
VIDEO DRIVE
DET OUT
TP12
D302 ISS119TG
SYNC CLAMP
D301 ISS119TG
H CLAMP
IC301
PIC
CLAMP
SHP
B-R-T
Y-MTX
CLAMP PULSE SW
F/F
ACC SW
R-Y DEMO
B-Y DEMO
BG
ID
SIG SW
V.SW
ACC AMP
ACC
COL AMP
HUE
HUE SW
PIC MTX
KILLER
φ DET
YCM301
YDL TRAP
BPF
VIDEO
CHROMA
Y
V HOLD
BRT
H FREQ
COL
PIC
ACC
SMB
PHASE
ACC DRIFT
D306 ISS119TG
Q301 2SC2785TP
PAL CHROMA
DL301
T301 DAT
Q006 DTC124ES-TP
MUTE 1
Q210 DTC124ES-TP
U AFT 1
Q007 DTA124ES-TP
MUTE 2
Q211 2SK105A
U AFT 2
Q002 2SA1175TP
RESET
D015 RD3.9E-LT
RESET REF
IC002 M58658P
MEMORY
Q011 2SC2785TP
SYNC AMP 1
D020 ISS119TG
BIAS
TP17
SEARCH
D021 ISS119TG
PROTECT 7
Q012 DTC124ES-TP
SYNC AMP 2
Q005 2SC2785TP
VC OUT
IC006 μPC574J
VC
D014 RD5.6E-N3T
5V REF
D503 ISS119TG
V START
D502 ISS119TG
V SHAPE
V SIZE
V LIN
D504 ISS119TG
V BLK
D501 ISS119TG
CURRENT SW
IC551 LA7830
V OUT
PONP UP
PLS WD
D857 RD30E-L4T
Q804 2SC2785TP
H BLK
D551 GP08D
BOOST
V CENT
D855 RGP10G
24V RECT
D854 GP08D
30V RECT
Q851 2SD1134
12V REG
TP92
12V
D856 RD13E-NIT
12V REF
D853 RGP10G
15V RECT
Q801 2SC2688
H DRIVE
T801 HDT
D822, 823 GP08D
H CENT 1-2
Q802 2SD1554
H OUT
H CENT
T802 H.PCT
L805 HLC
L806 HWC
SG801
D821 GP08D
PIN +B
Q821 2SD789
PIN AMP
PIN
D852 V30N
G2 RECT
TP91
115V
IC601
REMOTE
ECL
OUT PUT
SOFT START
LATCH
REF AMP
COMP
OSC
REG
115V ADJ
Q605 2SC2785TP
SOFT STRT
Q604 2SC2785TP
OSC SHIFT
D606 RD5.6E-L2T
REG REF
Q603 2SA639S
ECL
D605 ISS119TG
BACK UP 1
D607 GP08D
BACK UP 2
Q602 2SC2958
REG DRIVE
T602 RDT
Q601 2SC3505F
REG OUT
D610 ERC25-06S
+B RECT
D608 RGP10G
13V RECT
D609 GP08D
7V RECT
T603 SRT
TH601
A-6
F-4
7V
13V
HP
E
115V
4.8Vp-p (H)
2.1Vp-p (H)
11Vp-p (V)
8.8Vp-p (H)
0.18Vp-p (H)
5.3Vp-p (H)
12Vp-p (H)
1.6Vp-p (V)
8.8Vp-p (H)
50Vp-p (V)
27Vp-p (V)
1Vp-p (V)
120Vp-p (H)
16Vp-p (H)
970Vp-p (H)
1.5Vp-p (V)
15Vp-p (H)
PAL 0.4Vp-p (H)
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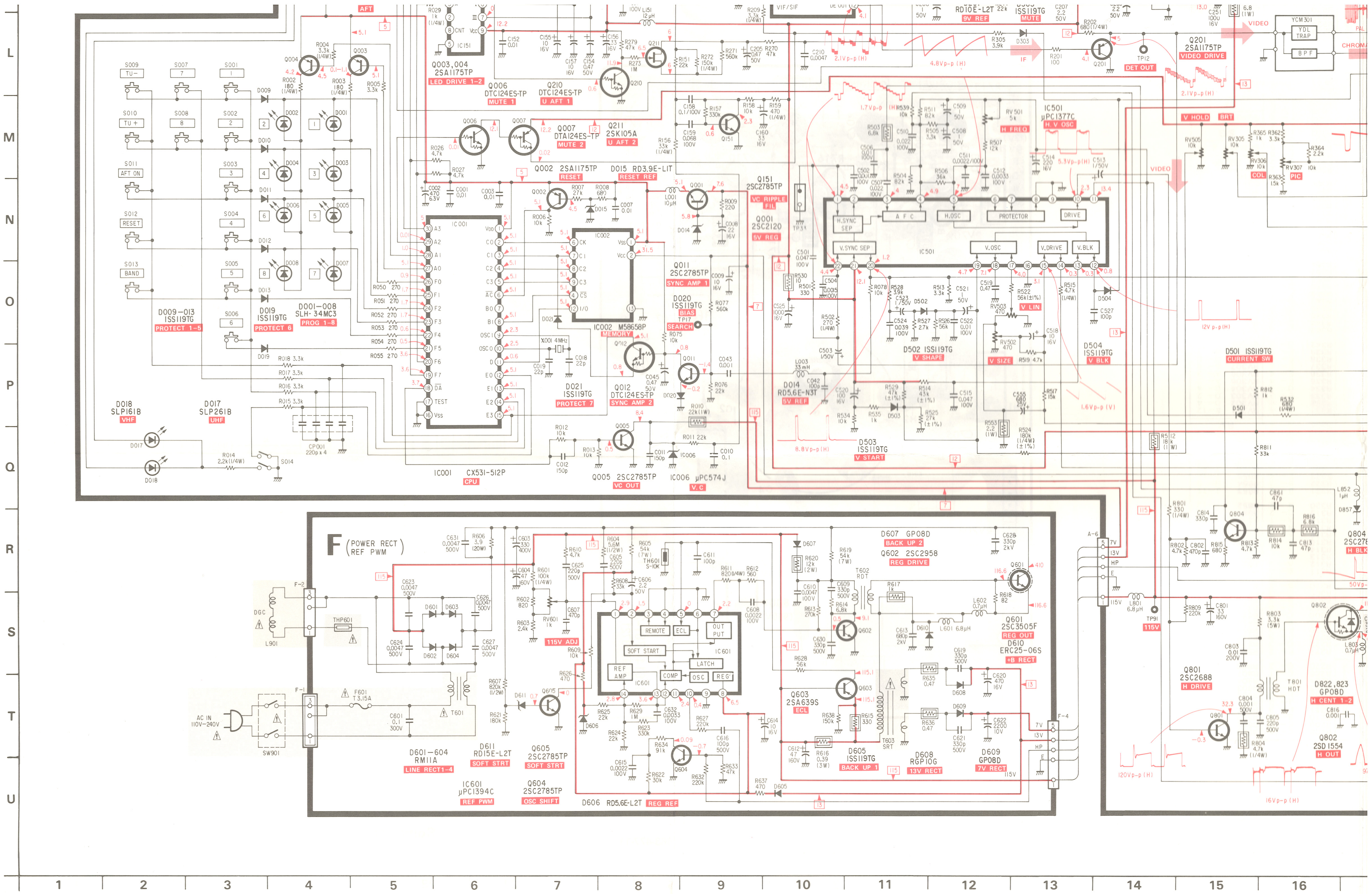
16
17
18
19
20
21
22


L
M
N
O
P
Q
R
S
T
U
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
AFT
VIF/SIF
VIDEO
CHROMA
YCM301
YDL TRAP
BPF
S009 TU−
S007 7
S001 1
S010 TU+
S008 8
S002 2
S011 AFT ON
S003 3
S012 RESET
S004 4
S013 BAND
S005 5
S006 6
D009−013 1SS119TG PROTECT 1−5
D019 1SS119TG PROTECT 6
D001−008 SLH-34MC3 PROG 1−8
D018 SLP161B VHF
D017 SLP261B UHF
S014
CP001 220p x 4
Q003,004 2SA1175TP LED DRIVE 1−2
Q006 DTC124ES-TP MUTE 1
Q210 DTC124ES-TP U AFT 1
Q007 DTA124ES-TP MUTE 2
Q211 2SK105A U AFT 2
Q002 2SA1175TP RESET
D015 RD3.9E-LIT RESET REF
IC151
IC001 CX531-512P CPU
IC002 M58658P MEMORY
Q012 DTC124ES-TP SYNC AMP 2
D021 1SS119TG PROTECT 7
Q011 2SC2785TP SYNC AMP 1
D020 1SS119TG BIAS SEARCH
Q001 2SC2120 5V REG
Q151 2SC2785TP VC RIPPLE FIL
Q005 2SC2785TP VC OUT
IC006 μPC574J V.C
D014 RD5.6E-N3T 5V REF
IC501 μPC1377C H V OSC
H.SYNC SEP
AFC
H.OSC
PROTECTOR
DRIVE
V.SYNC SEP
V.OSC
V.DRIVE
V.BLK
H FREQ
V LIN
V SIZE
D502 1SS119TG V SHAPE
D503 1SS119TG V START
D504 1SS119TG V BLK
D501 1SS119TG CURRENT SW
RD10E-L2T 9V REF
1SS119TG MUTE
Q201 2SA1175TP VIDEO DRIVE
DET OUT
V HOLD
BRT
COL
PIC
IF
F (POWER RECT REF PWM)
DGC
L901
THP601
AC IN 110V−240V
SW901
F601 T3.15A
T601
D601−604 RM11A LINE RECT1−4
D611 RD15E-L2T SOFT STRT
Q605 2SC2785TP SOFT STRT
IC601 μPC1394C REF PWM
Q604 2SC2785TP OSC SHIFT
D606 RD5.6E-L2T REG REF
115V ADJ
REMOTE
ECL
OUT PUT
SOFT START
LATCH
REF AMP
COMP
OSC
REG
D607 GP08D BACK UP 2
Q602 2SC2958 REG DRIVE
Q601 2SC3505F REG OUT
D610 ERC25-06S +B RECT
Q603 2SA639S ECL
D605 1SS119TG BACK UP 1
D608 RGP10G 13V RECT
D609 GP08D 7V RECT
T602 RDT
T603 SRT
7V
13V
HP
E
115V
TP91 115V
Q801 2SC2688 H DRIVE
Q802 2SD1554 H OUT
D822,823 GP08D H CENT 1−2
Q804 2SC278 H BLK
T801 HDT
4.8Vp-p (H)
2.1Vp-p (H)
1.7Vp-p (H)
5.3Vp-p (H)
12Vp-p (H)
8.8Vp-p (H)
1.6Vp-p (V)
120Vp-p (H)
16Vp-p (H)
50Vp-p

MOUNTING DIAGRAM

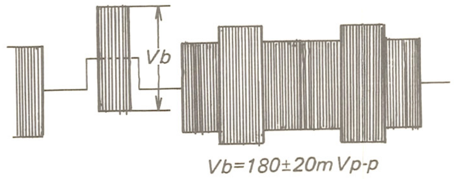
Note: All mounting diagrams are viewed from conductor side.

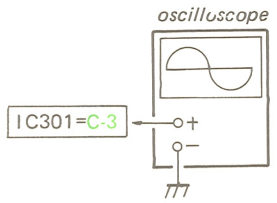
A [VIF/SIF V/CHROMA USER CONTROL]

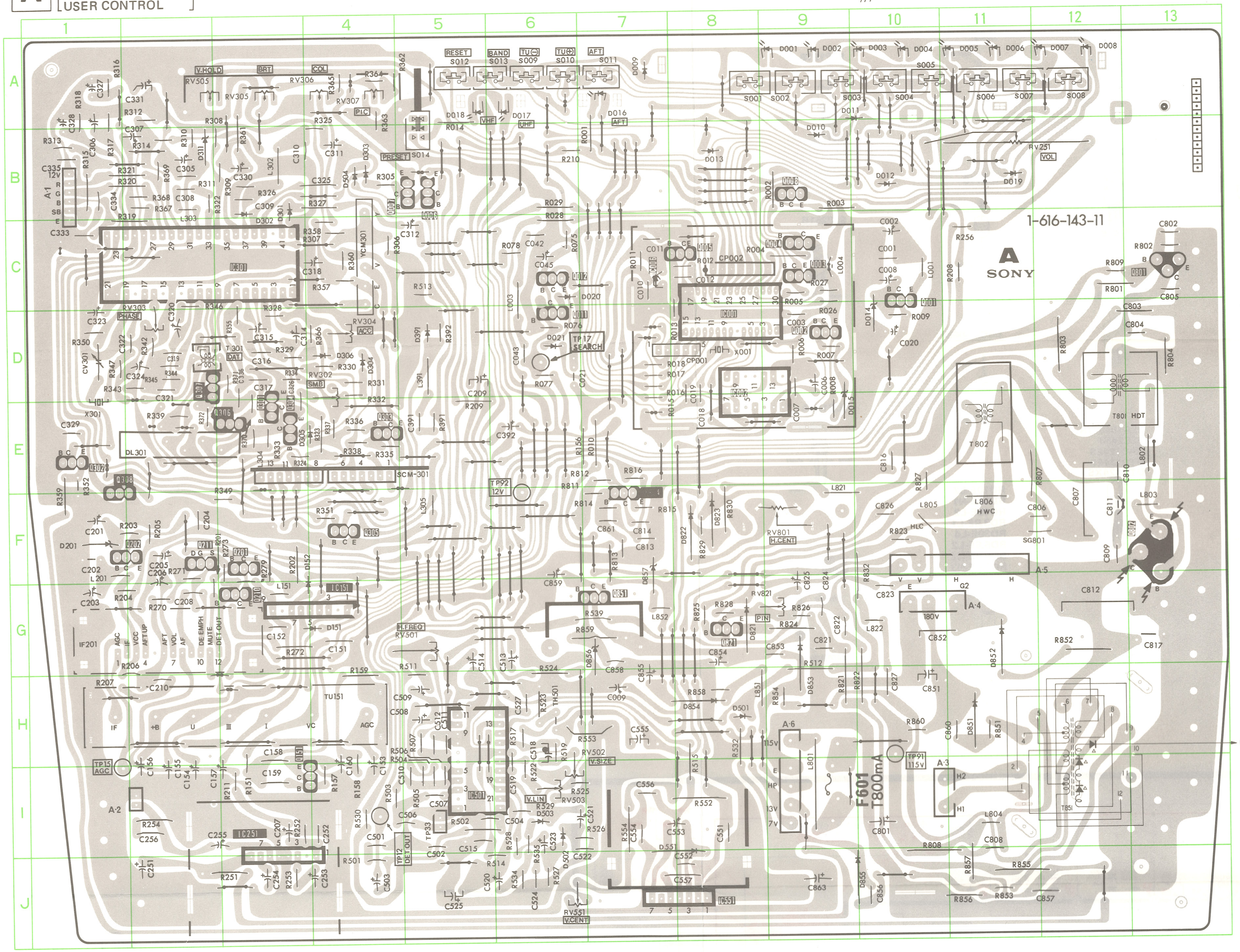
ACC ADJUSTMENT

RV304=D-4, IC301=C-3

1. *Input the PAL color bar signal.*
2. *Set the PICTURE, COLOR and BRT control to center click.*
3. *Observe IC301 pin ⑦ waveform and adjust ACC VR (RV-304) so that the waveform level is 180±20mVp-p.*


Vb
Vb=180±20m Vp-p


oscilloscope
IC301=C-3
+
−


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9
10
11
12
13
1-616-143-11
A
SONY
RESET S012
BAND S013
TU(−) S009
TU(+) S010
AFT S011
V.HOLD
BRT
COL
PIC
PRESET
VHF
UHF
VOL
PHASE
ACC
DAT
SMB
TP17 SEARCH
TP92 12V
H.CENT
HLC
HWC
PIN
H.FREQ
V.SIZE
V.LIN
V.CENT
TP15 AGC
TP12 DET OUT
TP91 115V
F601 T800mA
IC301
IC001
IC151
IC251
IC501
IC551
TU151
IF201
T801 HDT
T802
HV

A	
A1	B—1
A2	I—1
A3	I—10
A4	G—11
A5	F—11
A6	G—9

C	
C001	C—10
C002	C—10
C003	D—9
C007	E—9
C008	C—10
C009	H—7
C010	C—7
C011	C—7
C012	C—8
C018	E—8
C019	D—8
C042	C—6
C043	D—6
C045	C—6
C151	G—4
C152	G—3
C153	I—4
C154	I—2
C155	I—2
C156	I—2
C157	I—3
C158	H—3
C159	I—3
C160	H—4
C201	F—1
C203	G—1
C204	F—2
C205	F—2
C206	F—2
C207	I—3
C208	G—2
C209	D—5
C210	H—2
C251	J—2
C252	I—4
C253	J—4
C254	J—3
C255	I—2
C256	I—2
C305	B—2
C306	B—1
C307	B—2
C308	B—2
C309	B—3
C310	B—3
C311	B—4
C312	C—5
C314	D—3
C315	D—3
C316	D—3
C317	D—3
C318	C—4
C319	D—2
C320	D—2
C321	D—2
C322	D—2
C323	D—1
C324	D—2
C325	B—4
C326	E—3
C329	E—1
C330	B—3
C331	A—2
C333	C—1
C334	B—1
C335	B—1
C391	E—5
C392	E—6
C501	I—4
C502	I—5
C503	J—4
C504	I—5
C506	I—5
C507	I—5
C508	H—5
C509	H—5
C510	I—5
C511	H—5
C512	H—5
C513	G—6
C514	G—5
C515	I—5
C518	H—6
C519	I—5
C520	J—5
C521	I—5
C522	I—5
C523	I—5
C524	J—6
C525	J—5
C527	H—6
C551	I—8
C552	J—8
C553	I—7
C554	I—7
C555	H—7
C556	I—7
C557	J—8
C801	I—10
C802	C—13
C803	D—13
C804	D—13
C805	C—13
C806	F—11
C807	F—12
C808	I—11
C809	F—12
C810	E—12
C812	G—12
C813	F—7
C814	F—7
C816	E—10
C821	G—9
C822	G—9
C823	G—9
C824	G—9
C825	G—9
C826	F—10
C827	H—10
C851	H—10
C852	G—10
C853	G—9
C854	G—8
C855	H—7
C856	J—10
C857	J—12
C858	G—7
C859	F—6
C860	H—11
C861	F—7
C863	J—9

CV	
CV301	D—1

D	
D001	A—9
D002	A—9
D003	A—10
D004	A—10
D005	A—11
D006	A—11
D007	A—12
D008	A—12
D009	A—7
D010	B—9
D011	A—10
D012	L—10
D013	B—8
D014	D—10
D015	E—9
D016	A—7
D017	A—6
D018	A—5
D019	B—11
D020	C—7
D021	D—6
D151	G—4
D152	F—3
D201	F—1
D301	B—3
D302	B—3
D303	B—4
D304	D—4
D305	E—3
D306	D—4
D311	B—2
D391	D—5
D501	H—8
D502	I—6
D503	I—6
D504	B—4
D551	J—7
D821	G—8
D822	F—8
D823	F—8
D851	H—11
D852	G—11
D853	H—9
D854	H—8
D855	J—9
D856	G—7
D857	F—7

DL	
DL301	E—2

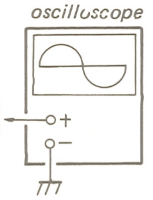
IC	
IC001	D—
IC002	D—
IC006	C—
IC151	G—
IC251	I—
IC301	C—
IC501	I—
IC551	J—

IF	
IF201	G—

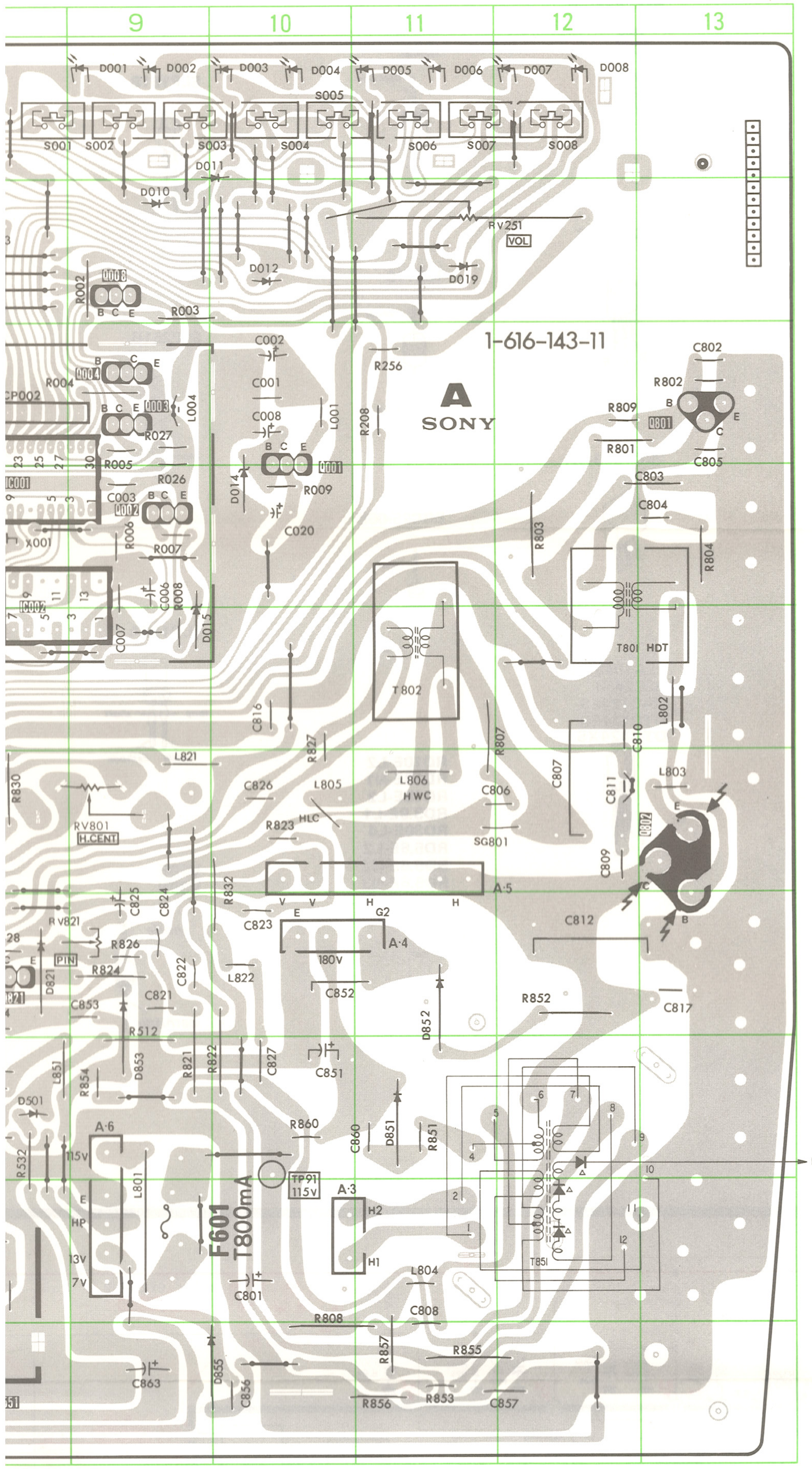
L	
L001	C—
L003	C—
L151	G—
L201	F—
L302	B—
L303	B—
L304	E—
L305	F—
L391	D—
L801	I—
L803	F—
L804	I—
L805	F—
L806	F—
L821	F—
L822	G—
L851	H—
L852	G—

Q	
Q001	C—
Q002	D—
Q003	C—
Q004	C—
Q005	C—
Q006	B—
Q007	B—
Q008	B—
Q011	D—
Q012	C—
Q151	I—
Q201	F—
Q202	F—
Q210	G—
Q211	F—
Q301	E—
Q302	E—
Q303	E—
Q304	E—
Q801	C—
Q802	F—
Q804	F—
Q821	G—
Q851	G—

R	
R001	B—
R002	B—
R003	B—
R004	C—
R005	C—
R006	D—
R007	D—
R008	D—
R009	D—
R010	E—
R011	C—
R012	C—
R013	D—
R014	A—
R015	E—
R016	D—
R017	D—
R018	D—
R026	D—
R027	C—
R028	C—
R029	B—
R075	C—
R076	D—
R077	D—
R078	C—
R151	I—
R156	E—
R157	I—
R158	I—
R159	H—
R201	F—
R202	F—
R203	F—
R204	G—
R205	F—
R206	G—
R207	H—


oscilloscope
+
−

IC301=C-3


9
10
11
12
13
D001
D002
D003
D004
D005
D006
D007
D008
S005
S001
S002
S003
S004
S006
S007
S008
D010
D011
RV251
VOL
D012
D019
R002
Q008
R003
C002
C001
R256
1-616-143-11
A
SONY
C802
R802
Q801
R809
R801
C805
C803
C804
R004
R027
Q003
Q004
L004
C008
L001
R208
R005
R026
Q001
R009
C020
C003
Q002
R006
R007
C006
R008
C007
D015
D014
X001
R803
R804
T801 HDT
T802
C816
R827
L821
R830
RV801
H.CENT
C826
L805
L806
HWC
C806
SG801
R823
HLC
R807
C807
C810
L802
C811
L803
Q802
C809
A-5
C825
C824
R832
C823
G2
A-4
180V
RV821
PIN
R826
C822
L822
R824
C821
C853
C852
R852
D852
C812
C817
R512
R821
R822
C827
C851
D501
R854
D853
L851
A-6
R860
C860
D851
R851
HV
115V
R532
TP91 115V
A-3
H2
H1
HP
13V
7V
F601
T800mA
L801
C801
L804
T851
R808
C808
R857
R855
C863
D855
C856
R856
R853
C857

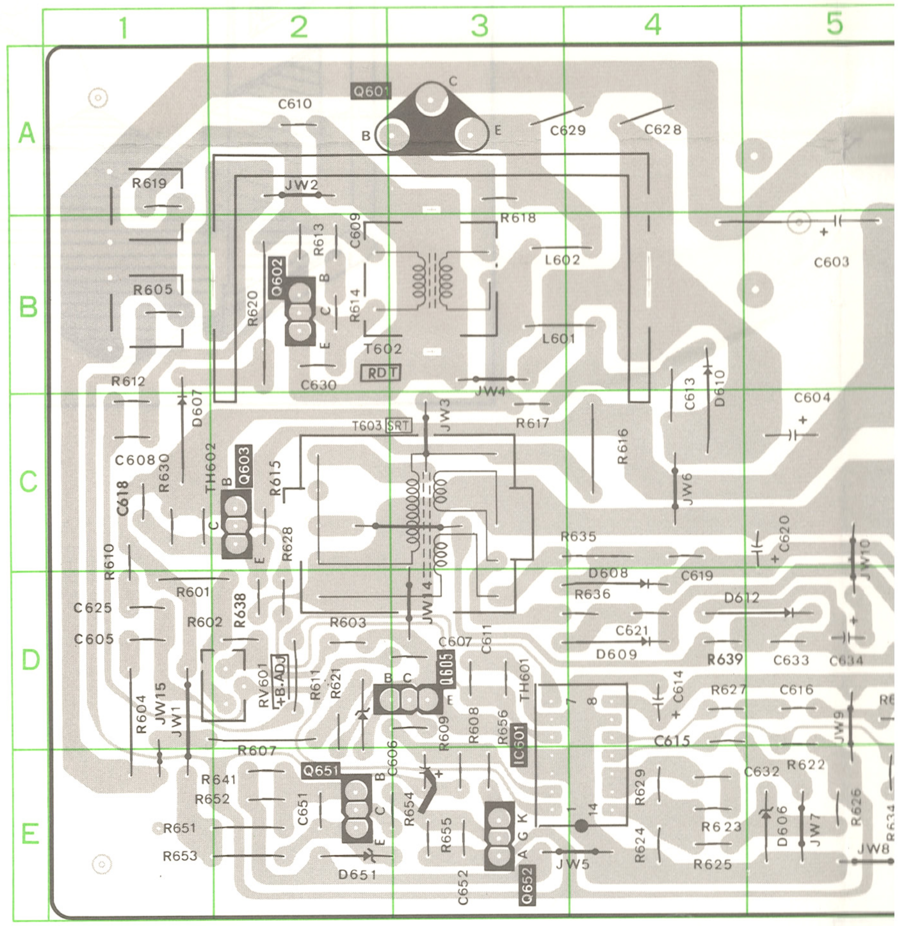
A	
A1	B− 1
A2	I − 1
A3	I −10
A4	G−11
A5	F −11
A6	G− 9
C	
C001	C−10
C002	C−10
C003	D− 9
C007	E− 9
C008	C−10
C009	H− 7
C010	C− 7
C011	C− 7
C012	C− 8
C018	E− 8
C019	D− 8
C042	C− 6
C043	D− 6
C045	C− 6
C151	G− 4
C152	G− 3
C153	I − 4
C154	I − 2
C155	I − 2
C156	I − 2
C157	I − 3
C158	H− 3
C159	I − 3
C160	H− 4
C201	F− 1
C203	G− 1
C204	F− 2
C205	F− 2
C206	F− 2
C207	I − 3
C208	G− 2
C209	D− 5
C210	H− 2
C251	J− 2
C252	I − 4
C253	J− 4
C254	J− 3
C255	I − 2
C256	I − 2
C305	B− 2
C306	B− 1
C307	B− 2
C308	B− 2
C309	B− 3
C310	B− 3
C311	B− 4
C312	C− 5
C314	D− 3
C315	D− 3
C316	D− 3
C317	D− 3
C318	C− 4
C319	D− 2
C320	D− 2
C321	D− 2
C322	D− 2
C323	D− 1
C324	D− 2
C325	B− 4
C326	E− 3
C329	E− 1
C330	B− 3
C331	A− 2
C333	C− 1
C334	B− 1
C335	B− 1
C391	E− 5
C392	E− 6
C501	I − 4
C502	I − 5
C503	J− 4
C504	I − 5
C506	I − 5
C507	I − 5
C508	H− 5
C509	H− 5
C510	I − 5
C511	H− 5
C512	H− 5
C513	G− 6
C514	G− 5
C515	I − 5
C518	H− 6
C519	I − 5
C520	J− 5
C521	I − 5
C522	I − 5
C523	I − 5
C524	J− 6
C525	J− 5
C527	H− 6
C551	I − 8
C552	J− 8
C553	I − 7
C554	I − 7
C555	H− 7
C556	I − 7
C557	J− 8
C801	I −10
C802	C−13
C803	D−13
C804	D−13
C805	C−13
C806	F−11
C807	F−12
C808	I −11
C809	F−12
C810	E−12
C812	G−12
C813	F− 7
C814	F− 7
C816	E−10
C821	G− 9
C822	G− 9
C823	G− 9
C824	G− 9
C825	G− 9
C826	F−10
C827	H−10
C851	H−10
C852	G−10
C853	G− 9
C854	G− 8
C855	H− 7
C856	J−10
C857	J−12
C858	G− 7
C859	F− 6
C860	H−11
C861	F− 7
C863	J− 9
CV	
CV301	D− 1
D	
D001	A− 9
D002	A− 9
D003	A−10
D004	A−10
D005	A−11
D006	A−11
D007	A−12
D008	A−12
D009	A− 7
D010	B− 9
D011	A−10
D012	L−10
D013	B− 8
D014	D−10
D015	E− 9
D016	A− 7
D017	A− 6
D018	A− 5
D019	B−11
D020	C− 7
D021	D− 6
D151	G− 4
D152	F− 3
D201	F− 1
D301	B− 3
D302	B− 3
D303	B− 4
D304	D− 4
D305	E− 3
D306	D− 4
D311	B− 2
D391	D− 5
D501	H− 8
D502	I − 6
D503	I − 6
D504	B− 4
D551	J− 7
D821	G− 8
D822	F− 8
D823	F− 8
D851	H−11
D852	G−11
D853	H− 9
D854	H− 8
D855	J− 9
D856	G− 7
D857	F− 7
DL	
DL301	E− 2
IC	
IC001	D− 8
IC002	D− 8
IC006	C− 7
IC151	G− 3
IC251	I − 3
IC301	C− 3
IC501	I − 5
IC551	J− 8
IF	
IF201	G− 1
L	
L001	C−10
L003	C− 6
L151	G− 3
L201	F− 1
L302	B− 3
L303	B− 2
L304	E− 3
L305	F− 5
L391	D− 5
L801	I − 9
L803	F−13
L804	I −11
L805	F−10
L806	F−11
L821	F− 9
L822	G−10
L851	H− 8
L852	G− 7
Q	
Q001	C−10
Q002	D− 9
Q003	C− 9
Q004	C− 9
Q005	C− 8
Q006	B− 5
Q007	B− 4
Q008	B− 9
Q011	D− 6
Q012	C− 6
Q151	I − 3
Q201	F− 3
Q202	F− 1
Q210	G− 3
Q211	F− 2
Q301	E− 3
Q302	E− 1
Q303	E− 4
Q304	E− 3
Q801	C−13
Q802	F−13
Q804	F− 7
Q821	G− 8
Q851	G− 7
R	
R001	B− 7
R002	B− 9
R003	B− 9
R004	C− 8
R005	C− 9
R006	D− 9
R007	D− 9
R008	D−10
R009	D−10
R010	E− 7
R011	C− 7
R012	C− 8
R013	D− 8
R014	A− 5
R015	E− 7
R016	D− 7
R017	D− 7
R018	D− 7
R026	D− 9
R027	C− 9
R028	C− 6
R029	B− 6
R075	C− 6
R076	D− 6
R077	D− 6
R078	C− 6
R151	I − 3
R156	E− 6
R157	I − 4
R158	I − 4
R159	H− 4
R201	F− 2
R202	F− 3
R203	F− 2
R204	G− 1
R205	F− 2
R206	G− 2
R207	H− 1
R208	C−11
R209	E− 5
R210	B− 6
R211	I − 3
R251	J− 3
R252	I − 3
R253	J− 3
R254	I − 2
R256	C−11
R270	G− 2
R271	F− 2
R272	G− 3
R273	F− 3
R279	F− 3
R305	B− 4
R306	C− 4
R307	C− 4
R308	B− 3
R309	B− 3
R310	B− 2
	2
R311	B− 2
R312	A− 2
R313	B− 1
R314	B− 2
R315	B− 1
R316	A− 1
R317	B− 1
R318	A− 1
R319	C− 2
R320	B− 2
R321	B− 2
R322	B− 2
R323	E− 4
R324	E− 3
R325	A− 4
R326	B− 3
R327	B− 4
R328	D− 3
R329	D− 3
R330	D− 4
R331	D− 4
R332	E− 4
R333	E− 3
R334	D− 3
R335	E− 4
R336	E− 4
R337	E− 4
R338	E− 4
R339	E− 2
R342	D− 2
R343	D− 2
R344	D− 2
R345	D− 2
R346	C− 2
R347	D− 1
R349	F− 3
R350	D− 1
R355	D− 3
R357	C− 4
R358	C− 4
R359	F− 1
R360	C− 4
R361	B− 3
R362	A− 5
R363	A− 4
R364	A− 4
R365	A− 4
R366	D− 4
R367	B− 2
R368	B− 2
R369	B− 2
R372	E− 2
R391	E− 5
R392	D− 5
R501	J− 4
R502	I − 5
R503	I − 4
R504	I − 5
R505	I − 5
R506	I − 5
R507	H− 5
R511	H− 5
R512	H− 9
R513	C− 5
R514	J− 5
R515	I − 8
R517	H− 6
R519	H− 6
R522	I − 6
R524	H− 6
R525	I − 6
R526	I − 6
R527	J− 6
R528	I − 6
R529	I − 6
R530	I − 4
R532	H− 8
R534	J− 6
R535	I − 6
R539	G− 7
R539	G− 7
R552	I − 8
R553	H− 7
R554	I − 7
R801	C−12
R802	C−13
R803	D−12
R804	D−13
R807	E−11
R808	J−10
R809	C−12
R811	F− 7
R812	E− 7
R813	F− 7
R814	F− 7
R815	F− 7
R816	E− 7
R821	H− 9
R822	H−10
R823	F−10
R824	G− 9
R825	G− 8
R826	G− 9
R827	E−10
R828	G− 8
R829	F− 8
R830	F− 8
R832	G−10
R851	H−11
R852	G−12
R853	J−11
R854	H− 9
R855	J−11
R856	J−11
R857	J−11
R858	H− 8
R859	G− 7
R860	H−10
RV	
RV251	B−12
RV302	D− 4
RV303	D− 2
RV304	D− 4
RV305	A− 3
RV306	A− 3
RV307	A− 4
RV501	G− 5
RV502	H− 7
RV503	I − 6
RV505	A− 2
RV551	J− 6
RV801	F− 9
RV821	G− 9
S	
S001	A− 8
S002	A− 9
S003	A− 9
S004	A−10
S005	A−10
S006	A−11
S007	A−11
S008	A−12
S009	A− 6
S010	A− 6
S011	A− 7
S012	A− 5
S013	A− 6
S014	L− 5
SCM	
SCM301	E− 5
SG	
SG801	F−11
T	
T301	D− 3
T801	E−12
T802	E−11
T851	L− 9
TU	
TU151	H− 4
X	
X001	D− 8
X301	E− 1
YCM	
YCM301	C− 9

115V ADJUSTMENT

RV601=D-2

F [POWER RECT / REF PWM]

Adjust RV601 for 115±0.2V on the digital multi
meter.


1
2
3
4
5
A
B
C
D
E
Q601
C610
B
C
E
C629
C628
R619
JW2
R618
C603
R605
R620
Q602
R613
R614
C609
L602
T602
RDT
L601
R612
C630
JW4
C613
D610
C604
D607
T603 SRT
JW3
R617
R616
C608
TH602
Q603
R630
R615
C618
JW6
R635
C620
R610
R628
R601
D608
C619
R636
D612
C625
R602
R603
C621
C605
D609
R639
C633
C634
RV601
+B ADJ
R611
R621
C607
Q605
TH601
C614
R627
C616
R604
JW15
JW1
R609
R608
R656
IC601
C615
R607
Q651
R841
R652
C651
R654
C606
R629
C632
R622
R651
R655
Q652
R624
R623
D606
JW7
R626
JW8
R653
D651
C652
JW5
R625

C [R·G·B OUT]

C

D– 8
D– 8
C– 7
G– 3
I – 3
C– 3
I – 5
J – 8

F

G– 1

L

C–10
C– 6
G– 3
F– 1
B– 3
B– 2
E– 3
F– 5
D– 5
I – 9

F–13
I –11
F–10
F–11
F– 9
G–10
H– 8
G– 7

Q

C–10
D– 9
C– 9
C– 9
C– 8
B– 5
B– 4
B– 9
D– 6
C– 6

I – 3
F– 3
F– 1
G– 3
F– 2
E– 3
E– 1
E– 4
E– 3
C–13

F–13
F– 7
G– 8
G– 7

R

B– 7
B– 9
B– 9
C– 8
C– 9
D– 9
D– 9
D–10
D–10
E– 7

C– 7
C– 8
D– 8
A– 5
E– 7
D– 7
D– 7
D– 7
D– 9
C– 9

C– 6
B– 6
C– 6
D– 6
D– 6
C– 6
I – 3
E– 6
I – 4
I – 4

H– 4
F– 2
F– 3
F– 2
G– 1
F– 2
G– 2
H– 1

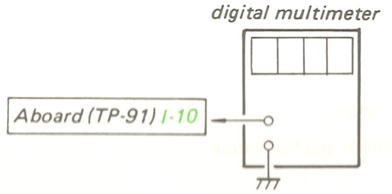
R208	C–11
R209	E– 5
R210	B– 6
R211	I – 3
R251	J – 3
R252	I – 3
R253	J – 3
R254	I – 2
R256	C–11
R270	G– 2
R271	F – 2
R272	G– 3
R273	F – 3
R279	F – 3
R305	B– 4
R306	C– 4
R307	C– 4
R308	B– 3
R309	B– 3
R310	B– 2
	2
R311	B– 2
R312	A– 2
R313	B– 1
R314	B– 2
R315	B– 1
R316	A– 1
R317	B– 1
R318	A– 1
R319	C– 2
R320	B– 2
R321	B– 2
R322	B– 2
R323	E– 4
R324	E– 3
R325	A– 4
R326	B– 3
R327	B– 4
R328	D– 3
R329	D– 3
R330	D– 4
R331	D– 4
R332	E– 4
R333	E– 3
R334	D– 3
R335	E– 4
R336	E– 4
R337	E– 4
R338	E– 4
R339	E– 2
R342	D– 2
R343	D– 2
R344	D– 2
R345	D– 2
R346	C– 2
R347	D– 1
R349	F – 3
R350	D– 1
R355	D– 3
R357	C– 4
R358	C– 4
R359	F – 1
R360	C– 4
R361	B– 3
R362	A– 5
R363	A– 4
R364	A– 4
R365	A– 4
R366	D– 4
R367	B– 2
R368	B– 2
R369	B– 2
R372	E– 2
R391	E– 5
R392	D– 5
R501	J – 4
R502	I – 5
R503	I – 4
R504	I – 5
R505	I – 5
R506	I – 5
R507	H– 5
R511	H– 5
R512	H– 9
R513	C– 5
R514	J – 5
R515	I – 8
R517	H– 6
R519	H– 6
R522	I – 6
R524	H– 6
R525	I – 6
R526	I – 6
R527	J – 6
R528	I – 6
R529	I – 6
R530	I – 4
R532	H– 8
R534	J – 6
R535	I – 6
R539	G– 7

R539	G– 7
R552	I – 8
R553	H– 7
R554	I – 7
R801	C–12
R802	C–13
R803	D–12
R804	D–13
R807	E–11
R808	J–10
R809	C–12
R811	F– 7
R812	E– 7
R813	F– 7
R814	F– 7
R815	F– 7
R816	E– 7
R821	H– 9
R822	H–10
R823	F–10
R824	G– 9
R825	G– 8
R826	G– 9
R827	E–10
R828	G– 8
R829	F– 8
R830	F– 8
R832	G–10
R851	H–11
R852	G–12
R853	J–11
R854	H– 9
R855	J–11
R856	J–11
R857	J–11
R858	H– 8
R859	G– 7
R860	H–10
RV	
RV251	B–12
RV302	D– 4
RV303	D– 2
RV304	D– 4
RV305	A– 3
RV306	A– 3
RV307	A– 4
RV501	G– 5
RV502	H– 7
RV503	I – 6
RV505	A– 2
RV551	J– 6
RV801	F– 9
RV821	G– 9
S	
S001	A– 8
S002	A– 9
S003	A– 9
S004	A–10
S005	A–10
S006	A–11
S007	A–11
S008	A–12
S009	A– 6
S010	A– 6
S011	A– 7
S012	A– 5
S013	A– 6
S014	L– 5
SCM	
SCM301	E– 5
SG	
SG801	F–11
T	
T301	D– 3
T801	E–12
T802	E–11
T851	L– 9
TU	
TU151	H– 4
X	
X001	D– 8
X301	E– 1
YCM	
YCM301	C– 9

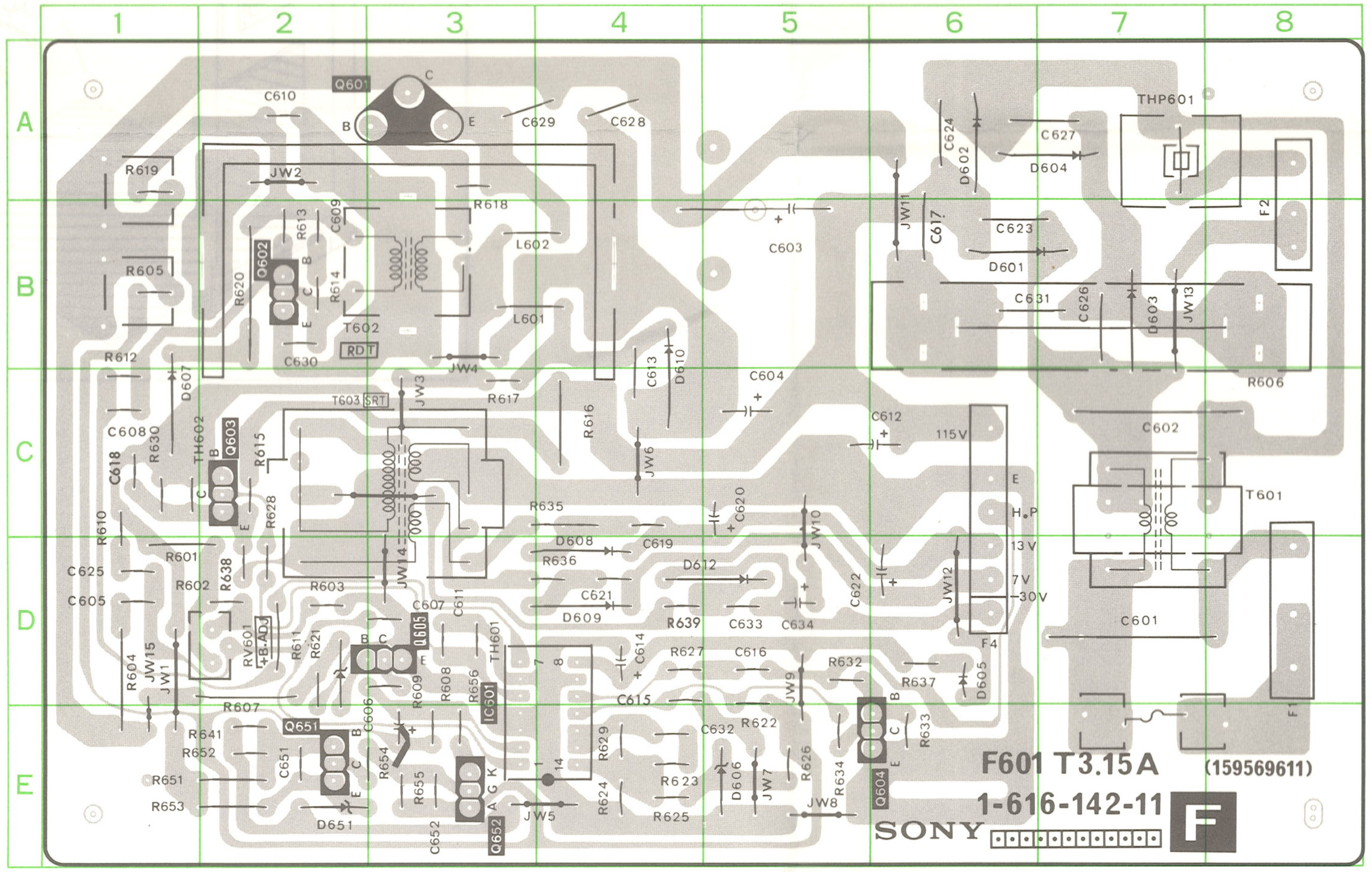
F [POWER RECT REF PWM]

115V ADJUSTMENT   RV601=D-2

Adjust RV601 for 115±0.2V on the digital multimeter.



digital multimeter
Aboard (TP-91) I-10



1
2
3
4
5
6
7
8
A
B
C
D
E
Q601
C610
B
E
C
C629
C628
THP601
C627
D604
C624
D602
R619
JW2
R618
L602
C603
JW11
C617
C623
D601
F2
R605
Q602
R613
C609
R614
R620
T602
RDT
L601
C631
C626
D603
JW13
R612
C630
JW4
D607
C613
D610
C604
R606
T603 SRT
JW3
R617
C608
R630
TH602
Q603
R615
R616
JW6
C612
115V
C602
C618
R628
R635
C620
E
H.P
T601
R610
R601
D608
C619
JW10
13V
C625
R636
D612
7V
C605
R602
R638
R603
C621
C622
JW12
-30V
R604
JW15
JW1
RV601
R611
R621
C607
Q605
C611
D609
R639
C633
C634
F4
C601
TH601
R627
C616
C614
R632
R637
D605
R607
Q651
R656
R608
R609
IC601
C615
R622
C632
R633
R641
R652
C651
R654
R655
R629
R623
D606
JW7
R626
R634
Q604
F1
R651
R653
D651
C652
Q652
JW5
R624
R625
JW8
F601 T3.15A
(159569611)
1-616-142-11
SONY
F

C	
C601	D-7
C602	C-7
C603	B-5
C604	C-5
C605	E-1
C606	E-3
C607	D-3
C608	C-1
C609	B-2
C610	A-2
C611	D-3
C612	C-6
C613	C-4
C614	D-4
C615	D-4
C616	D-4
C617	B-6
C618	C-1
C619	C-4
C620	C-5
C621	D-4
C622	D-6
C623	B-6
C624	A-6
C625	D-1
C626	B-7
C627	A-7
C628	A-4
C630	B-2
C631	B-6
C632	E-4
D	
D601	B-6
D602	A-6
D603	B-7
D604	A-7
D605	D-6
D606	E-5
D607	C-1
D608	D-4
D609	D-4
D610	B-4

D611	D-2
D612	D-4
D651	E-2
F	
F1	D-8
F2	B-8
F4	C-8
F	
F601	F-7
IC	
IC601	E-4
L	
L601	B-3
L601	B-3
Q	
Q602	A-3
Q603	B-2
Q604	C-2
Q605	E-5
Q651	D-3
Q652	E-2
	E-3
R	
R601	D-1
R602	D-2
R603	D-2
R604	D-1
R605	B-1
R606	B-8
R607	D-2
R608	E-2
R609	D-3
R610	C-1
R611	D-2
R612	C-1
R613	B-2

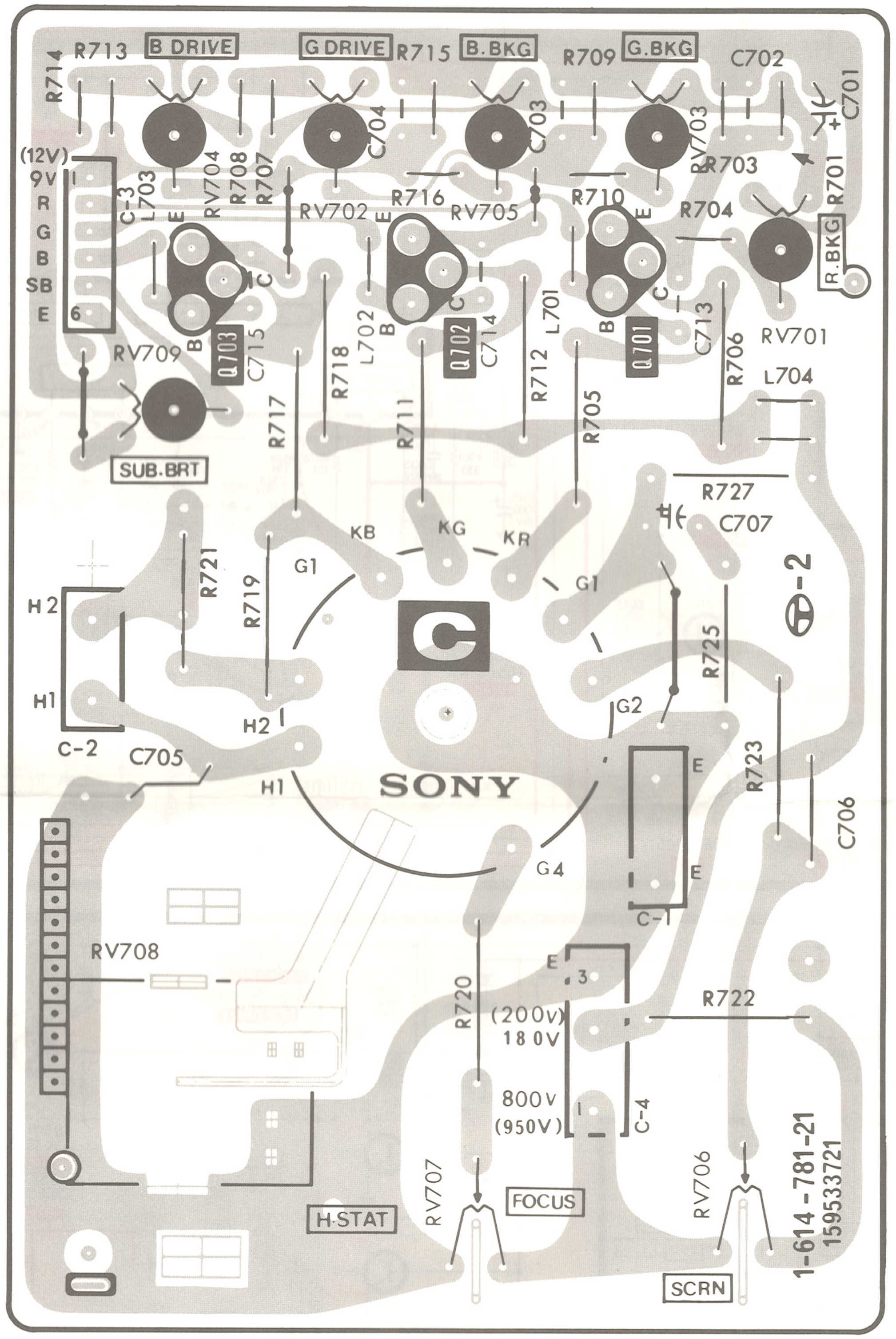
R614	B-2
R615	C-2
R616	C-4
R617	C-3
R618	A-3
R619	A-1
R620	B-2
R621	D-2
R622	D-5
R623	E-4
R624	E-4
R625	E-4
R626	E-5
R627	D-4
R628	D-2
R629	E-4
R630	C-1
R632	D-5
R633	E-6
R634	E-5
R35	C-4
R636	D-4
R637	D-6
R638	D-4
R630	D-4
R641	E-2
R651	E-2
R652	E-2
R653	E-2
R654	E-2
R655	E-3
R656	E-3
RV	
RV601	D-2
T	
T601	C-7
T602	B-3
T603	C-3

TH	
TH601	D-3
THP601	A-7
TH603	C-1

C [R·G·B OUT]

F– 2	R530	I– 4	YCM301	C– 9
G– 1	R532	H– 8		
F– 2	R534	J– 6		
G– 2	R535	I– 6		
H– 1	R539	G– 7		

C [R·G·B OUT]


R714
R713
B DRIVE
G DRIVE
R715
B.BKG
R709
G.BKG
C702
C701
C704
C703
RV703
R703
R701
(12V)
9V
R
G
B
SB
E
6
C-3
L703
RV704
R708
R707
RV702
R716
RV705
R710
R704
E
C
B
Q703
C715
L702
Q702
C714
L701
Q701
C713
R706
RV701
R.BKG
L704
RV709
R718
R717
R711
R712
R705
SUB.BRT
R727
C707
R721
R719
KB
KG
KR
G1
G1
H2
H1
C-2
C705
H2
H1
C
SONY
G2
R725
R723
C706
E
E
C-1
G4
⊖-2
RV708
R720
E
3
(200v)
180V
800v
(950V)
C-4
R722
H.STAT
RV707
FOCUS
RV706
SCRN
1-614-781-21
159533721

Sony Corporation

85IH0211-1
Printed in Japan
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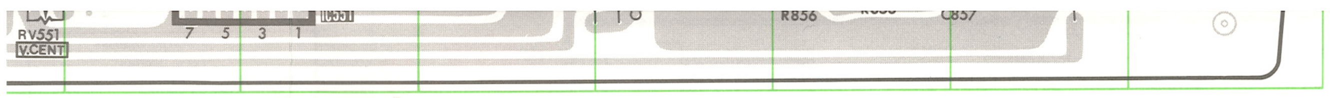
17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32


RV551
V.CENT
7 5 3 1
R856
C857

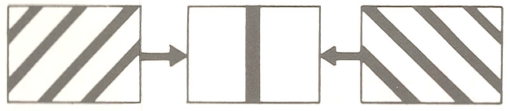
C521	I– 5	**DL**		R203	F– 2	R530	I– 4	YCM301	C– 9
C522	I– 5	DL301	E– 2	R204	G– 1	R532	H– 8		
C523	I– 5			R205	F– 2	R534	J– 6		
C524	J– 6			R206	G– 2	R535	I– 6		
C525	J– 5			R207	H– 1	R539	G– 7		

TU AGC ADJUSTMENT RF AFC=G-1

Adjust RF AGC so that snow noise cross modulation adjust disappear from the picture.

H·FREQ ADJUSTMENT IC501=I-5, RV501=G-5

1. *Input the PAL color bar signal.*
2. *Set the PICTURE, COLOR and BRT control to center click.*
3. *Connect a 100µ/16V chemical capaciter between IC501 pin ① and ground.*
4. *Adjust RV501 for the image shown below.*
5. *Disconnect a 100µ/16V.*
6. *Change tuner channel and confirm that picture does not change.*

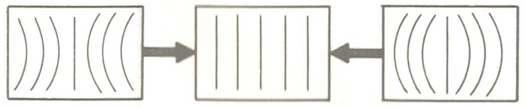

fo: too low
fo: suitable
(fo=15625±50Hz)
fo: high

V·SIZE *V·LINE* *V·CENT* RV502=H-7, RV503=I-6, RV551=J-6

Adjust RV502, RV503 and RV551 for a best vertical size picture.

PIN AMP ADJUSTMENT RV821=G-9

Adjust pin amplification with RV821.



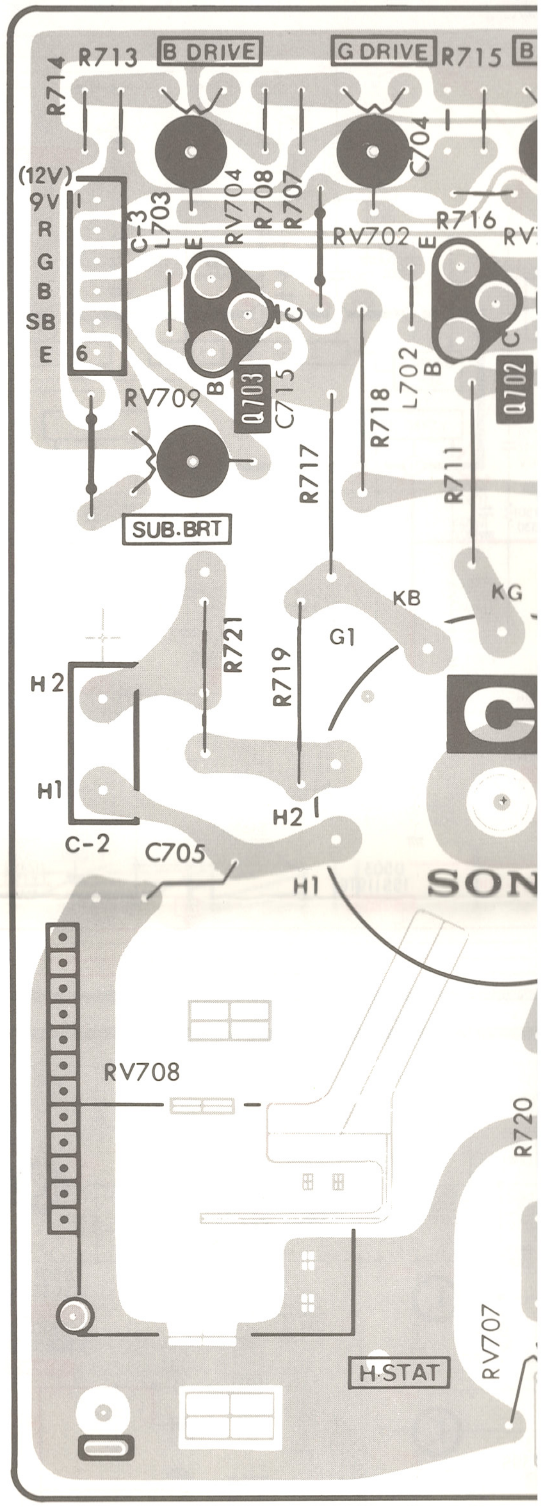
H·SIZE ADJUSTMENT L806=F-11

Adjust L806 for a best size picture.

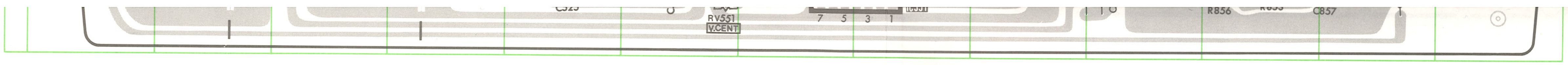
H·CENT ADJUSTMENT RV801=F-9

Adjust RV801 for a center the picture.

C [R·G·B OUT]


R713
B DRIVE
G DRIVE
R715
R714
(12V)
9V
R
G
B
SB
E
6
C-3
L703
E
RV704
R708
R707
C704
RV702
R716
RV709
B
Q703
C715
C
R718
L702
B
E
C
Q702
R717
R711
SUB.BRT
KB
KG
G1
R721
R719
H 2
H1
H2
C-2
C705
H1
SON
RV708
R720
RV707
H.STAT

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



C520	J— 5	**DL**	R202	F—
C521	I — 5		R203	F—
C522	I — 5	DL301 E— 2	R204	G—
C523	I — 5		R205	F—
C524	J— 6		R206	G—
C525	J— 5		R207	H—

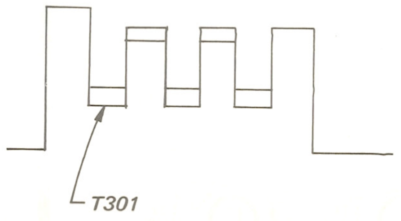
ANTI-PAL, LINE CRAWLING ADJUSTMENT RV302=D-4, RV303=D-2

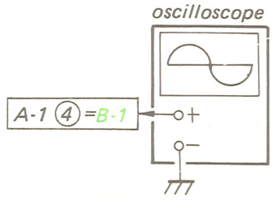
- *ANTI-PAL ADJUSTMENT* RV302=D-4, RV303=D-2

1. *Input the PAL SPECIAL color bar signal.*
2. *Set the PICTURE, COLOR and BRT control to center click.*
3. *Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture.*
   If there is adjust to remove the anti-PAL color at both side while tracking with RV302 (DELAY) and RV303 (PHASE).

- *LINE CRAWLING ADJUSTMENT* T301=D-3

1. *Input a PAL color bar.*
2. *Set the PICTURE, COLOR and BRT control to click center.*
3. *Observe the A-1 4 (Blue) output waveform shown in the oscilloscope.*
4. *Adjust T301 for minimum line crawling.*





A·P·C· ADJUSTMENT IC301=C-2, CV301=D-1

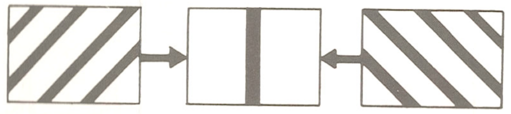
1. *Input the PAL color bar signal.*
2. *Set the PICTURE, COLOR and BRT control to center click.*
3. *Short circuit between pin ⑪ and pin ⑫ of IC301 with a jumper.*
4. *Adjust CV301 for suitable color intencity.*
5. *Remove a jumper.*

TU AGC ADJUSTMENT RF AFC=G-1

Adjust RF AGC so that snow noise cross modulation adjust disappear from the picture.

H·FREQ ADJUSTMENT IC501=I-5, RV501=G-5

1. *Input the PAL color bar signal.*
2. *Set the PICTURE, COLOR and BRT control to center click.*
3. *Connect a 100μ/16V chemical capaciter between IC501 pin ① and ground.*
4. *Adjust RV501 for the image shown below.*
5. *Disconnect a 100μ/16V.*
6. *Change tuner channel and confirm that picture does not change.*

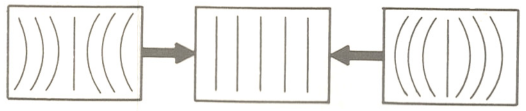


V·SIZE *V·LINE* *V·CENT* RV502=H-7, RV503=I-6, RV551=J-6

Adjust RV502, RV503 and RV551 for a best vertical size picture.

PIN AMP ADJUSTMENT RV821=G-9

Adjust pin amplification with RV821.



H·SIZE ADJUSTMENT L806=F-11

Adjust L806 for a best size picture.

H CENT ADJUSTMENT RV801=F-9

Adjust RV801 for a center the picture.

KV-1440E

SERVICE MANUAL

E Model

Chassis No. SCC-714A-A

No. 1

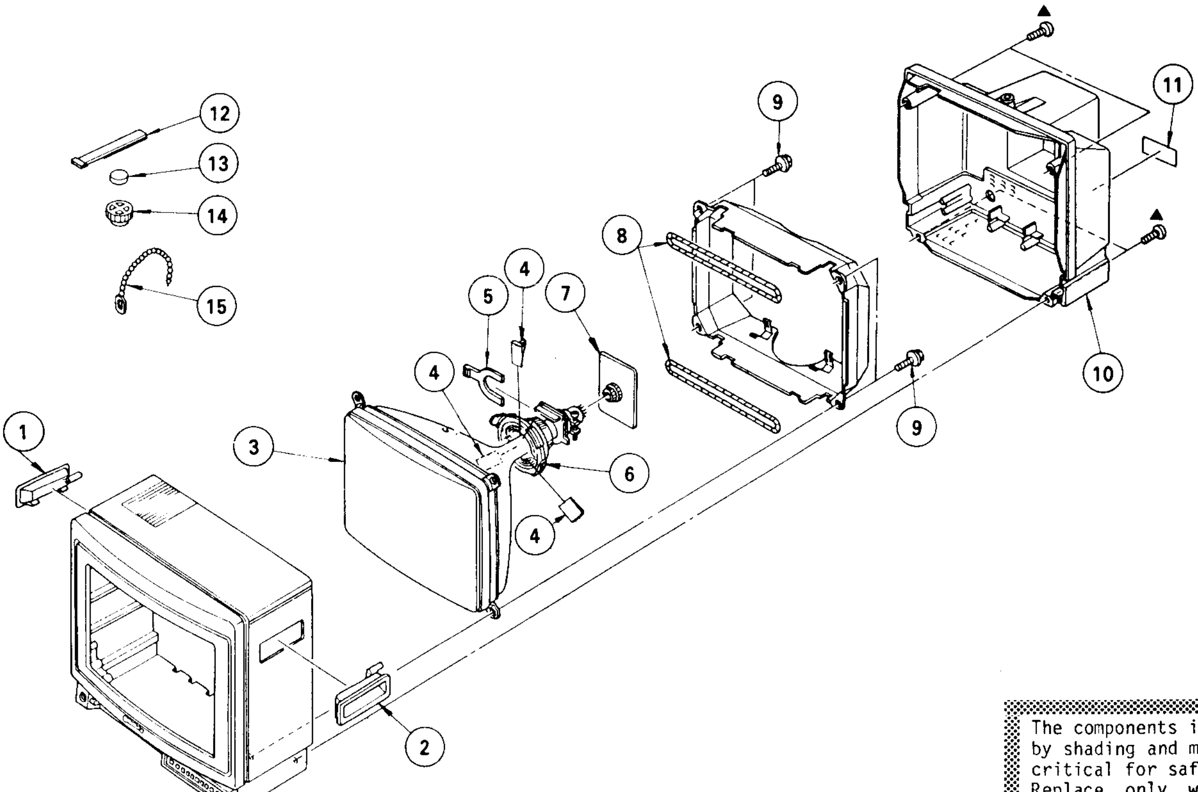
March, 1986

SUPPLEMENT

File this supplement with the service manual

Subject: ● New colour added

EXPLODED VIEWS: Page 5



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark
1	4-374-921-11	HANDLE (LEFT) (FOR WOOD)	
	4-374-921-41	HANDLE (LEFT) (FOR SILVER)	
2	4-374-920-11	HANDLE (RIGHT) (FOR WOOD)	
	4-374-920-41	HANDLE (RIGHT) (FOR SILVER)	
3	⚠ 8-735-553-05	CRT (A34JBU10X)	
4	3-703-961-01	SPACER, DY	
5	1-452-277-00	MAGNET, BMC	
6	⚠ 1-451-249-11	DEFLECTION YOKE (SY-125B)	
7	*A-1330-628-A	C BOARD, COMPLETE	
8	⚠ 1-426-145-00	COIL, DEGAUSSING	
9	4-365-808-00	SCREW (5), TAPPING	
10	4-374-925-21	COVER, BACK	
11	*4-376-545-01	LABEL, MODEL NUMBER	
12	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
13	1-452-032-00	MAGNET, DISK; 10MM ø	
14	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
15	4-308-870-00	CLIP, LEAD WIRE	

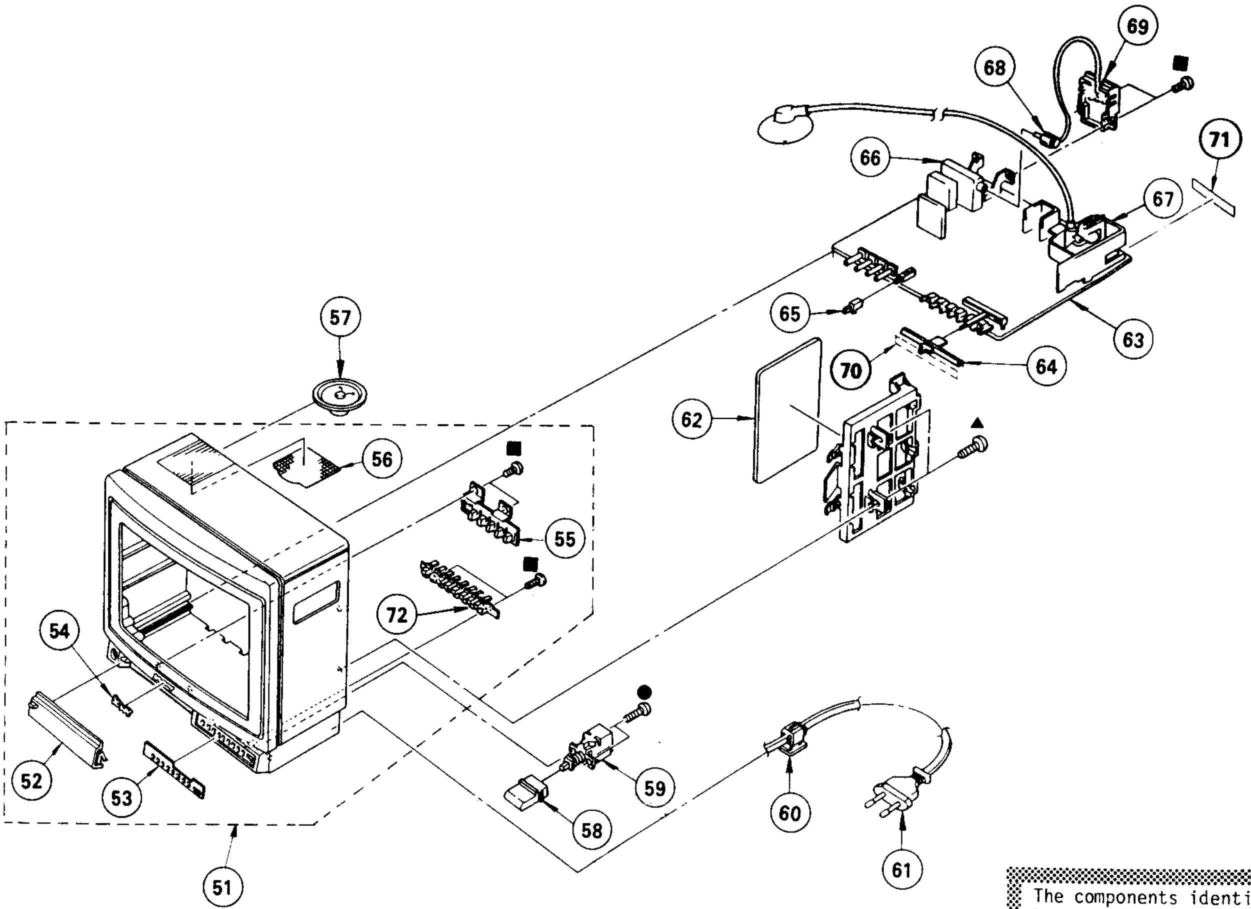
MICROFILM

TRINITRON® COLOR TV

SONY®

CTV

EXPLODED VIEWS: Page 6



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark
51	X-4374-932-1	BEZEL ASSY (FOR WOOD)	52, 53, 54, 55, 56, 72
	X-4374-932-4	BEZEL ASSY (FOR SILVER)	52, 53, 54, 55, 56, 72
52	X-4374-923-4	DOOR ASSY, CONTROL	
53	4-376-526-01	WINDOW (A), TUNING	
54	4-840-002-00	EMBLEM, SONY	
55	4-376-518-01	BUTTON, MULTI	
56	*4-374-962-01	NET, SPEAKER	
57	1-503-344-11	SPEAKER	
58	4-376-523-01	BUTTON (A), POWER	
59	⚠1-554-967-11	SWITCH, PUSH (AC POWER)(1 KEY)	
60	⚠4-022-115-00	HOLDER, AC CORD	

No.	Part No.	Description	Remark
61	⚠1-534-817-71	CORD, POWER	
62	*A-1245-287-A	F BOARD, COMPLETE	
63	*A-1296-065-A	A BOARD, COMPLETE	
64	4-374-914-11	KNOB, CONTROL	
65	4-376-524-01	BUTTON, PRESET	
66	⚠1-463-584-11	TUNER, ET (BT-881A)	
67	⚠1-439-311-31	TRANSFORMER ASSY, FLYBACK	
68	*1-534-805-00	PIN CABLE	
69	⚠1-536-933-11	TERMINAL BOARD, ANTENNA	
70	9-911-837-XX	CUSHION	
71	9-911-837-XX	CUSHION, UPPER LID	
72	X-4374-933-1	BUTTON ASSY, TUNING (FOR WOOD)	
	X-4374-933-5	BUTTON ASSY, TUNING (FOR SILVER)	

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ACCESSORIES AND PACKING MATERIALS
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Part No.	Description	Remark
1-501-329-11	ANTENNA, TELESCOPIC	
1-513-382-00	ANTENNA MUTCHING	
4-316-037-00	BAG, POLYETHYLENE	
4-374-990-01	CUSHION (UPPER) (ASSY)	
4-374-991-01	CUSHION (LOWER) (ASSY)	
4-376-544-01	INDIVIDUAL CARTON	
4-482-081-51	MANUAL, INSTRUCTION (FOR WOOD) (ASIA)	
4-482-243-41	MANUAL, INSTRUCTION (FOR SILVER) (HOLLAND)	

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